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**EFFECT OF STIMULUS AND RESPONSE
SEPARATION ON BRUSHTAIL POSSUM
BEHAVIOUR IN A MTS TASK**

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KRISTIE ELIZABETH CAMERON

University of Waikato

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ABSTRACT

Brush-tail possums, *Trichosurus vulpecula*, were presented with five rows of blue and yellow stimuli (levels one-five) arranged vertically 20 mm apart, above the response levers. For each level each possum was trained to complete a Matching to Sample task at zero seconds delay. Generally, possums showed peak performance at the level presently being trained across all levels. There was also a decrease in performance at levels further from the trained level, suggesting performance generalised to similar levels. The findings from this experiment provide evidence for placing stimuli and response manipulanda close together to improve acquisition of a task, and increase the responding accuracy in DMTS experiments. This suggests that the relative position of stimuli and response manipulanda is critical to possums performing a MTS task. These findings also have implications for experiments other than MTS and could be applied to study involving other marsupials.

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INTRODUCTION

The Brushtail possum, *Trichosurus vulpecula*, is one of a number of Australian marsupials. The species is a tree-dwelling omnivorous, nocturnal mammal which was introduced to New Zealand in 1858 to establish an economically profitable fur trade (Pracy, 1974, McDowall, 1994). During the last century, possum inhabitancy has extended to over 91% of New Zealand forest and bush, in addition to off shore islands (Cowan, 1990). The possum population is estimated to be in the tens of millions, making them New Zealand's most prolific pest, influencing the New Zealand farming industry as carriers of bovine tuberculosis and consumers of valuable crops and orchards. In addition, possums compete with indigenous wildlife destroying native forest and bush (Cowan, 1992, Landcare Research NZ, 2008). Since the introduction of the brushtail possum, pest management has become an important aspect of New Zealand ecology and the agricultural economy.

Management of possums in New Zealand has traditionally focused on widespread eradication using poison, commonly 1080 (sodium monofluoroacetate) or cyanide, with the occasional use of phosphorus and brodifacoum (Parliamentary Commissioner for the Environment, 2000). Recent research has focused on biological control of possum fertility to complement current methods of management (Parliamentary Commissioner for the Environment, 2000). It is common for landowners and commercial trappers to capture possums using leg-hold traps, and more recently kill-traps, for effective eradication (Cowan, 1991).

Lethal doses of poisons are routinely used to kill possums in both isolated and unrestricted conservation areas (Parliamentary Commissioner for the Environment, 1994; Henderson, Frampton, Morgan & Hickling, 1999). The efficiency of poison, (ingestion results in death) is generally dependent on the toxicity and palatability of bait. Henderson et al. (1999) found that palatability was more important than toxicity as consumption was more likely to result in death if bait was fully consumed. Partial consumption is slow to kill and is associated with physical and behavioural indicators of distress in animals, and humans (Sherley; 2004, 2007). Partial consumption can result in survival and bait-shyness, defined as 'behavioural resistance' to baited areas and specific bait-masking odours or lures, effectively inhibiting eradication (Henderson et al., 1999).

Bio-control of possums is a long-term initiative for eradication but is still in the research phase. Recent research has focused on disrupting fertility in female possums for 24 months. However, an appropriate method for introducing the treatment into the wild possum population is still unknown (Easton, 2009). Other research includes parasites or diseases to reduce pest numbers and using aerosol sprays and genetically enhanced plant life as vectors (Parliamentary Commissioner for the Environment, 2000).

In practice, trapping is a reliable method for eradication using leg-hold traps that restrain the animal until the trapper returns. Kill traps are also used but are regulated and must kill the animal quickly to minimize suffering (Warburton & Orchard, 1996). A minimum kill rate of 70% is also required for the use of kill traps by the International Organization for Standardisation 1994 (Sherley, 2004).

Trapping relies on luring or attracting the animal to the trap or bait. Scent-based lures such as cinnamon are used to mask cyanide or 1080 poisons and visual lures are used to attract the possum to a leg hold or kill trap (Sherley, 1992). Visual lures are useful for annual monitoring and control as they do not require regular checking (Carey, O'Conner, McDonald & Matthews, 1997; NPCA, 2008). Research has focused on possible visual lure attachments such as pure, UV enhanced and luminescent white materials. Warburton & Yockney (2000) found that more possums were captured in leg hold traps that had a white backboard and Biggins (1984, cited in Carey et al., 1997) states that dried urine is white and may have signal properties to other possums. Carey et al. (1997) used captive possums to compare the attractive properties of an acoustic lure, a 1s 'beep' every 6s, and a visual lure, a white beam of light in front of a wooden box. It was concluded that beyond the curious nature of the possum, where a novel object in the environment would stimulate possum investigation, the visual lure attracted possums to the box, but the sound prompted entry into the box. Therefore, a white visual lure is more likely to attract possums from a greater distance increasing the likelihood of capturing the animal. This conforms to the National Possum Control Agency of New Zealand (NPCA) that produced a best practice manual in 2008 that advised all practitioners of pest management that a 5:1 ratio of flour and icing sugar displayed above a trap is a satisfactory lure to ensure possum capture (NPCA, 2008).

Thomas and Maddigan (2004) tested the attractiveness of plain white, Ultraviolet (UV) enhanced and luminescent white lures on WaxTags®. WaxTags® are plastic triangles with a waxed point. Possums bite the wax and leave an imprint. This information can be used to determine possum numbers

within an area (NPCA, 2008). UV light was tested as possums have dichromatic vision. Possum colour vision with short wavelengths, such as blue and ultra violet, is better at dusk, dawn and during the night than colours with middle to long wavelengths, such as green, yellow, brown orange and red (Thomas & Maddigan, 2004). Photo luminescent pigments were tested as they are cheap, long-lasting and durable compared to the current common method of flour-based lures which need to be replaced often (Warburton & Yockney, 2000; Thomas & Maddigan, 2004). In addition, luminescent pigments absorb, store and reemit light without a power source making them valuable tools for use in dense bush and large areas of terrain (Carey et al., 1997).

Thomas and Maddigan (2004) showed that the WaxTags® with the luminescent lure had significantly more possum bites per tag compared with the white and UV enhanced tags. This led to a comparison of bait bags and kill traps with and without a luminescent WaxTag® lures. The luminescent lure attracted 62% and 63% of possums killed by bait bags and kill traps respectively (Thomas & Maddigan, 2004). Therefore, using a visual lure with a luminescent pigment is more likely to attract possums to either a trap or bait station and is cost and time effective for intermittent pest control over large areas.

Ogilvie, Sakata, Thomas and Maddigan (2006) also found luminescent tags had a higher attraction rate than UV or white tags. They suggested that luminescent tags reflected off surrounding surfaces increasing the area of exposure. Although, it seems more likely that in the bush the luminescent tag was the only 'bright' and novel object that could be seen from a distance.

It seems that eradication and successful monitoring and control, especially through trapping, depends upon the success of luring the animal. An

understanding of the perceptual abilities and behavioural mechanics of the possum will aid in the identification of effective lures. For example, possums are able to detect white luminescent materials and this knowledge has been used to attract animals to traps. However, recent research has not influenced the general practice of lure usage (NPCA, 2008). Therefore, it is important to identify further aspects of possum psychophysical ability that could aid in the control of possums.

Possum psychophysical ability has not been widely studied, however, Signal, Temple and Foster (2001) tested the critical flicker fusion frequency (CFFF) of possums in a discrimination task. CFFF is the minimum flicker speed that a possum can detect before the light is seen as 'still'. The possum was required to press a lever on the right if the centre key was flickering, or on the left if the light was still. The frequency of the flickering light was systematically increased and the critical flicker fusion point was determined when the possum could no longer discriminate a flickering light from a still light. The CFFF for possums was 22.4 Hz compared to approximately 10 Hz for humans (Campos & Bedell, 1978). The findings from this experiment are important as they demonstrated it was possible to establish a conditional discrimination in the possum with their experimental methodology.

The auditory threshold of the possum was investigated by Signal et al. (2001). Based on the findings of Aitkin, Gates and Kenyon (1995), the peripheral auditory system of a possum is analogous to that of a cat but less sensitive. They measured cochlear microphonic potentials and found the greatest sensitivity between 700 and 100 Hz with responses at 30,000 Hz. Signal et al. (2001) investigated the auditory thresholds of the possum using a tone-on, tone-off discrimination task using a tone of 880 Hz. The average threshold was 64dB using

a 75% level of criterion over all possums, however, between 40-48 dB there was still evidence of detection. Osugi (2008) looked at the minimum and maximum pitch thresholds using the same methodology as Signal et al. (2001) and created a behavioural audiogram. It was found that possums hear tones between 100 Hz and 35 kHz reliably at 64 to 80 dB. However, as speakers are not designed to produce sound higher than for human hearing, 20 kHz (Human Hearing, 2008, cited in Osugi, 2008), it is likely that possums can hear higher pitched sounds than were found in this study.

An extensive program has been established in recent years examining in detail some of the more fundamental processes of possum psychophysics at the University of Waikato Animal Behaviour laboratory. The experiments have focused on collecting evidence of a short term remembering ability in possums when presenting sets of visual stimuli following short delays, however, these studies have not been published.

Most of the previous experiments looking at possum discrimination ability have used the Delayed Matching to Sample task. In Delayed Matching to Sample (DMTS), the subject is presented with a series of trials offering one of two (or more) discriminative stimuli. After responding, the stimuli are extinguished and after a delay, two comparison stimuli are presented. Reinforcement is delivered following selection of the matching comparison stimulus (Blough, 1959).

A summary of previous DMTS research follows. In Experiment one, the DMTS procedure presented a 'still' or 'flickering' light on the centre key that required five presses (Fixed Ratio 5) on the centre lever (located underneath the light) to turn the centre light off and begin a prearranged retention interval. At the conclusion of the retention interval, the side lights turned on presenting one still

and one flickering light. For example: following presentation of a still light and retention interval, a still left light, and flicker right light presentation required a response on the left lever to gain reinforcement.

Initially, the presentation of central and side light stimuli was simultaneous, with both lights turned on without extinction of the centre light. This is a Matching to Sample procedure (MTS). As each possum achieved the 85% correct performance criterion, the retention interval (time between the centre light turning off and side light turning on), was increased, typically to 0 s, then 1 s and 2 s. In the event that a possum did not show an increasing performance trend during a delay condition, the previous delay was reintroduced in an attempt to maintain performance of the DMTS task.

The data from this original experiment indicates that four out of the seven possums could perform the DMTS task at very short delays. Two possums showed considerably shorter acquisition times than the other five possums without requiring any condition reversals and showed an ability to remember at greater delays. However, for some possums an increase of 0.1 s delay was unobtainable.

The second DMTS experiment used 12 possums, six females and six males. Four possums had participated in experiment one. The stimuli consisted of three small panels of green LED lights arranged in a 5 x 5 matrix that presented five horizontal lights and five vertical green lights, replacing the still or flickering lights. The task became one of selecting the configuration (vertical or horizontal) that matched the centre stimulus. The position of the levers on the response panel, the experimental conditions and the DMTS procedure remained identical to the previous experiment except that the percentage correct criterion was decreased to 80%.

The results for Experiment 2 show that most possums required a high number of sessions to learn a DMTS task with horizontal/vertical green LED light stimuli. Four out of 12 possums failed to reach the 80% criterion during simultaneous presentation after 180 sessions. Two out of 12 possums reached the 80% correct criterion at 0.33 s delay but could not reach the criterion at 0.66 s delay. Horizontal/vertical LED lights as stimuli seem to have formed a more difficult DMTS task than the still/flicker stimuli as more sessions were required to gain the criterion for performance.

The third DMTS experiment utilized 10 possums, five female and five male. Four possums had participated in Experiment 2. Single blue and yellow lights, reflected onto Perspex, were used as stimuli 55 mm above the levers. The equipment and DMTS procedure remained consistent with Experiment 1 with the criterion at 90% correct.

Six out of 10 possums reliably performed at a delay greater than 0 s with two possums reaching 0.66 s delay and two possums reliably reaching 1 s delay. In this experiment, the conditions were manipulated to a greater degree in an effort to increase the delay. For example, one possum met criterion at 0.1 s delay but did not at 0.16 s delay. When the 0.1 s delay was reinstated it again reached the 90% criterion, however, this did not continue when the 0.16 s delay was repeated. This experiment emphasised that some possums are sensitive to very small differences in delay.

The still/flicker, horizontal/vertical and blue/yellow experiments have shown that most possums can learn DMTS tasks, however, apparently at only very short delays, after many sessions and with varying degrees of success. Kluver (1933) stated that negative results are not proof that an animal can not

perform an action or task but a signal that the conditions or environment are not optimal for the response to occur. Therefore, it was necessary to investigate whether the stimuli, task procedure or the response apparatus may have prohibited the possums from accurately performing the DMTS task.

Firstly, all stimuli were judged to be discriminable by the experimenters as the possums were able to tell the stimuli apart prior to beginning the MTS procedure. In Experiment 1, Signal et al. (2001) showed that possums displayed a conditional discrimination between flickering and still light when investigating the visual ability of possums. For Experiments 2 and 3, the stimuli were considered suitable after the 80% criterion for horizontal/vertical stimuli, and 90% criterion for blue/yellow stimuli was reached by all subjects. Therefore, failure to perform the DMTS tasks was not due to possum inability to discriminate any of the stimuli sets.

Blough (1959) detailed the MTS procedure using pigeons, and since then experiments involving both animals and humans have replicated and used derivatives of the original concept. The same general procedure was utilized with possums and showed that some possums performed well at DMTS with both the flicker/still and blue/yellow stimuli. There was also some reported success in the horizontal/vertical experiment. Because of these findings it is felt that the DMTS procedure was reliable and not an inherent cause of poor performance. Similarly, the task procedure concerning delay manipulation also remained consistent.

The previous experiments utilized identical apparatus for stimulus presentation where the stimuli were presented 55 mm above the response levers. Matching tasks carried out with other species typically combine the stimulus and response key. Blough (1959) compared a flickering and still white light by

requiring a pigeon to peck a lit key that matched a previously illuminated key. This is similar to the DTMS procedure used for non-human primates, which requires pushing a circular key illuminated by LEDs to gain reinforcement (Paule et al., 1998). Porter, Burk and Mair (2000) investigated a delayed non-matching to sample (DNMS) task in control and lesioned groups of rats where levers acted as both the stimulus and responding apparatus. A correct response consisted of the subject pressing one of the two levers it had not pressed in a previous sequence of four presses to four possible levers. For human subjects a computer touch screen is frequently used as the response panel. Robbins et al. (1997) asked patients to select previously viewed patterns of varying difficulties, from a selection on a touch screen by touching the correct answer with their index finger. Murphy et al. (1999) also used a touch screen to study the memory and planning ability of manic and depressed patients by asking them to select the previously identified abstract pattern or the previous location of that specific pattern. Jarvik (1953) used a spider monkey and four rhesus monkeys to investigate the use of combined response and reinforcement manipulanda. He dyed bread two colours that represented either a sweet tasting (plain) or unpleasant (laced with red pepper, dehydrocholic acid, and quinine) flavour. Combining manipulanda was more successful than using red and green plastic to cover the normal colour bread and requiring the subject to select the correct colour. Webster (1975) went one step further when he examined how visual information is transferred in the possum brain using a visual discrimination task. He combined the stimulus, response apparatus and reinforcer into one vertically displayed piece of carrot in comparison to a horizontal piece. This combination was chosen after trialling two different stimulus response tasks: a horizontal versus black line discrimination

using a bar-press as the response apparatus and two large keys similar to stimuli used in pigeon experiments operated by a press of the possums' nose. Both discriminations took over five months to train and the possums' behaviour did not reliably reach the criterion.

It appears that documented and successful experiments with a variety of humans and animals utilize combined stimulus-response manipulanda. The current MTS experiment initially located the response levers immediately below the stimuli to represent the previous studies that combine stimulus and response manipulanda accurately. Then the distance between response levers and stimuli was increased systematically by 20 mm to observe changes in matching performance. It was predicted that possum competency would be improved when the blue or yellow light stimulus was immediately above the lever compared to incremental distances above the response lever and would peak at the trained level.

METHOD

Subjects

Ten brush tail possums, *Trichosurus vulpecula*, were used in this experiment. Table 1 presents the sex, approximate year of attainment, mean weight, method of attainment and previous experimental experience for each subject. The results were not analysed for two possums (Marmite and Bonnie) as they did not perform the DMTS task reliably. The University of Waikato Animal Ethics Committee (protocol number 678) approved the use of animals for this experiment.

Individual housing consisted of wire mesh cages 540 mm wide x 850 mm high and 470 mm deep, with a nest box 450 mm wide x 300 mm high sloping from 360 mm to 195 mm above the cage. Figure 1 shows a photo of possum cages in the possum room. All possums were housed in a 12:12 hour reversed light/dark room. Experimental sessions occurred in the dark rotation with three 60-watt red light bulbs semi illuminating the room.

Possoms had constant access to water in the home cage with food given at least one hour following the conclusion of an experimental session to supplement food consumed during the experimental session. This food supplement consisted of dock leaves (*Rumex obtusifolius*) harvested from surrounding paddocks and either apple or carrot depending on availability. Possoms were fed speciality pellets, manufactured by Camtech Manufacturing Ltd, in addition to dock and apple or carrot on non experimental days and as post feed for some possums after an experimental session. Each possum was weighed



Figure 1. A photograph of the possum room during an experimental session.

Table 1.

The sex, approximate attainment year, mean weight over experimental period (kg), the method of attainment and previous experimental experience for each possum subject.

<i>Possum</i>	<i>Sex (F or M)</i>	<i>Approx attainment year</i>	<i>Mean Weight (kg)^a</i>	<i>Method of attainment</i>	<i>Previous Experimental Experience</i>
Sparky	F	2004	3.89	Wild caught	DMTS (Exp 1 & 2)
Hasty	M	2005	3.58	Wild caught	Naïve
Marmite	M	2000	3.78	Lab raised	DMTS (Exp 1 & 2)
Tom	M	2004	2.68	Bait research	DMTS (Exp 1 & 2)
Ishan	M	2003	4.10	Wild caught	Naïve
Charlotte	F	2003	3.99	Bait research	DMTS (Exp 1 & 2)
Bonnie	F	2000	2.95	Lab raised	DMTS (Exp 1 & 2)
Gus	M	2002	4.11	Wild caught	Naïve
Elroy	M	2005	3.26	Wild caught	Naïve
Taylor	F	2006	4.55	Lab raised	Naïve

^aMean weight is calculated over experimental period 25/7/08 – 19/5/09. Mean weight the total weight divided by 24 weigh sessions.

fortnightly, and supplementary food amounts were adjusted according to these weights.

Apparatus

Individual home cages functioned as the operant chambers with the response panel mounted as the cage doors. The response panel was made up of two layers; a piece of plywood 350 mm wide by 450 mm high on the outer side and dark perspex on the cage side. Figure 1 shows a diagram of the response panel. Three vertical rectangular slots were cut into the panel for the nylon stimulus strips and three round holes were cut at the base of each slot for the response levers. Clear perspex covered the slots on the cage side to prevent access to the stimuli by the possum. The tri-lever equipment consisted of three micro switches, Honeywell BZ-2RW863/A2, with the lever 'activator' reduced in length to extend 15 mm through the hole in the panel. The extensions were thin aluminium 90 mm long, held 80 mm apart by a piece of 160 mm long steel, which were slotted onto screws to the outside of the response panel during experimental sessions.

Each response panel had three pairs of stimuli located above each lever. Each pair consisted of two strips of nylon, 115 mm long x 7 mm wide x 5 mm deep. Figure 3 shows a diagram of a nylon strip. Five 5 mm diameter holes 25 mm apart were drilled into each panel and for each pair, one strip had blue LED lights fitted into the holes and the other had yellow. The lights were hot-glued in place. Each adjacent blue and yellow LED light was labelled a level. Level 1 was <5 mm above the lever, level 2 was approximately 30 mm above the lever, level 3 was approximately 55 mm above the lever, level 4 approximately was approximately

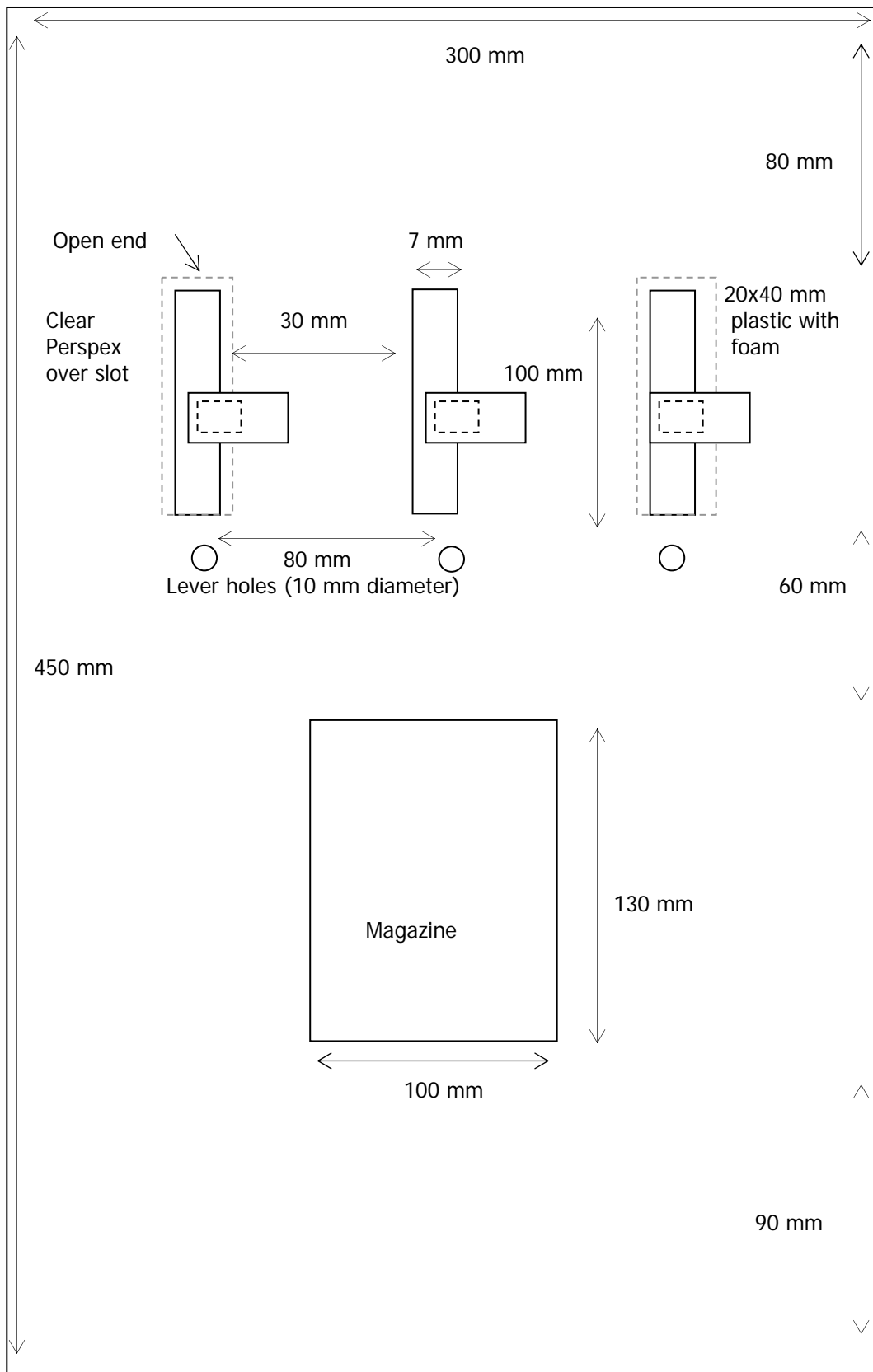


Figure 2. Scale diagram (25:1) of the operant chamber response panels. The stimuli pairs slid into the three vertical slots.

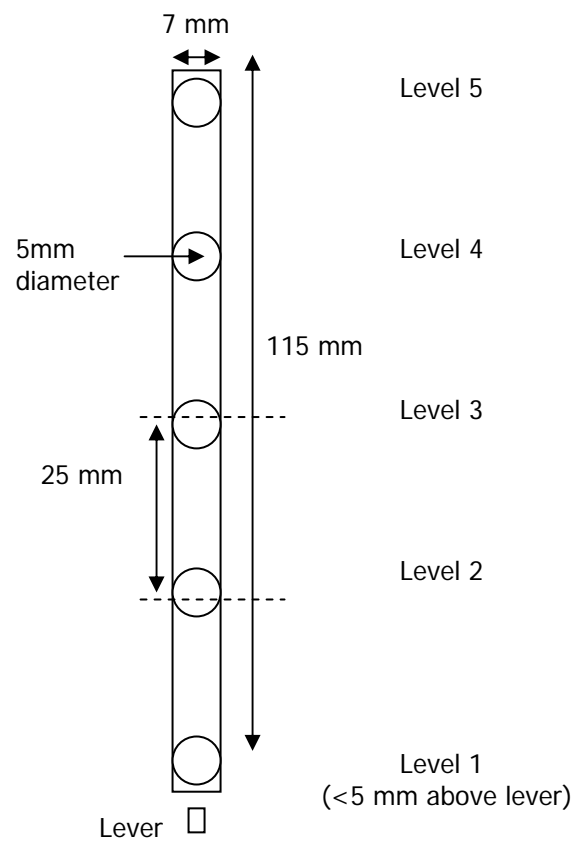


Figure 3. A 2D diagram of one nylon strip. The 5mm circles represent the LED lights. For each response panel there would be three blue/yellow pairs of nylon strips. (Actual size).

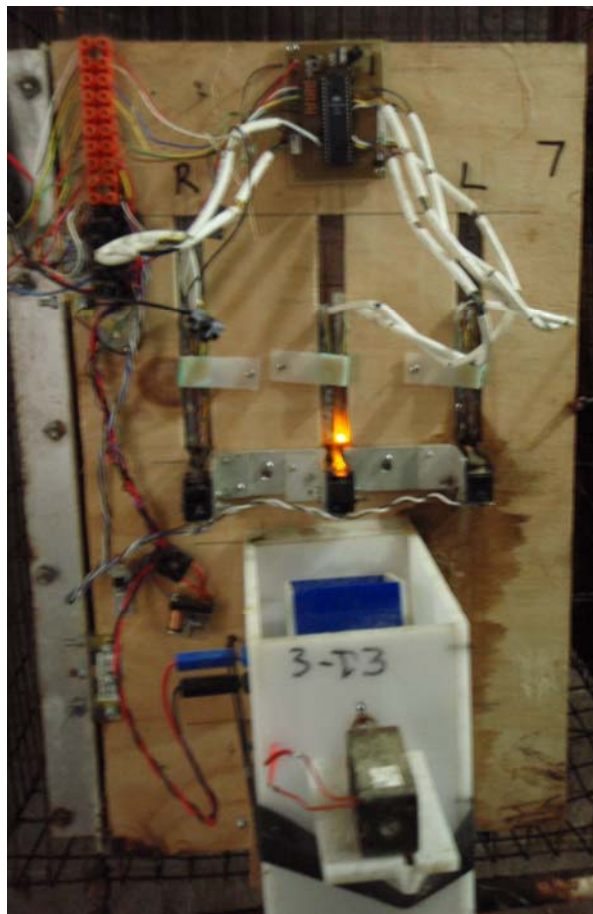
80 mm above the lever, and level 5 was 105 mm above the lever. A piece of thin plastic 20 mm wide by 40 mm long with a 20 mm wide x 20 mm long piece of thin foam glued to one side, was attached to the right of the rectangular slots to hold the strips in place.

The order of each stimulus pair, for example: blue strip on the right, yellow on the left, was changed approximately every five sessions. This was according to a predetermined sequence to prevent possums discriminating the stimuli according to position. The sequence consisted of six possible combinations listed from the experimenter's perspective from left to right. The order of stimulus pairs for all response panels was changed on the same training day.

When a correct response was completed a feedback beep sounded and reinforcement of 3s access to a raised food magazine was delivered. It contained a 15:1 ratio volume of steam-flaked barley and Coco-Pops™. For one possum reinforcement was toasted muesli (Sanitarian Toasted Muesli – Golden Oats & Fruit™). Figure 4 shows photographs of the response panel during a session from the outer side (a) and the cage side (b). The centre light at level 1 is illuminated.

MTS Training Procedure

Initial magazine training utilized all stimuli at level 1 (stimuli pairs and levers). Naïve possums were trained to press the centre lever and consume food on a continuous reinforcement (CRF) schedule. As magazine training progressed, the number of responses required on the centre lever was gradually increased from CRF to FR 5 schedule. After magazine training there were three phases of experimental training designed to introduce the possums to the MTS procedure.



(a)



(b)

Figure 4. Photographs of the response panel during an experimental session. The centre light at level 1 is illuminated from the outer side (a) and the cage side (b).

Possoms that had participated in previous experiments did not complete the first and second phase of training as it was not necessary.

The first phase of MTS training consisted of a 'correct-only lit' procedure where the centre light was turned on showing either a blue or yellow colour. Whether a trial began with a blue or yellow light was determined by pseudo-random sequence, known as the "Billerman" (based on Gellerman, 1933). This sequence produced an equal number of blue and yellow trials. Five presses on the centre lever turned on a side light with the same colour as the centre light. Whether the light was presented on either the left or right side was randomly determined but occurred equally often on both alternatives. A single response on the side lever below the colour that matched the centre colour led to 3 s access to reinforcement with every response reinforced (CRF). A correct choice elicited a short feedback beep. Responses to the lever with no illumination above had no affect during this phase of MTS training sessions. This phase continued for each possum until they were receiving more than 60 reinforcers within a session and responding at above 85% correct.

In the second phase all procedures for this phase was the same as Phase One. The exception was that during a trial, responses to the lever with no illumination above terminated the trial and led to 3 s blackout and a 6 s inter-trial interval, before commencing a new trial. This phase also continued until more than 60 reinforcers were being consumed per session and percent correct was above 85% correct.

In the third phase both side lights were turned on. The procedure was the same as Phase Two except that the incorrect, alternative light was also illuminated. Reinforcement was delivered according to the "Billerman" sequence

that specified on which side (left or right) reinforcement would next be available. This was done to ensure an approximately equal number of reinforcers were available on both the left and right sides. This phase continued until possums were responding above 85% correct over three days.

The simultaneous MTS training program was the same trial procedure as Phase Three except the reinforcement was controlled for both side and colour. This was done to ensure there were an equal number of reinforcers distributed to the left and right side, and also to blue and yellow stimuli. This procedure is summarised in Figure 5.

During simultaneous MTS training, one possum began to respond increasingly to the lever associated with one of the two alternative colours (colour bias). To eliminate this colour bias, the reinforcement procedure was altered. Previously, controls were in place to ensure equal distribution of reinforcement to both colour and side alternatives. This was substituted with controls that specified only which colour the next reinforcement would be available. The distribution of reinforcement was approximately equal across presentation of blue and yellow colours. The procedure was generally effective at eliminating colour bias when there was minimal difference between the number of corrects gained on each component of the stimuli.

After 50 session of simultaneous MTS training, some possums were not reliably performing the task. Therefore, the response requirement for selection of a side lever was temporarily altered from FR 1 to FR 3 for four possums (Marmite, Gus, Bonnie and Taylor). This increased exposure to the side stimuli by forcing an increased latency to choice as they were not reliably performing the MTS task. This procedure required the possums to perform three consecutive

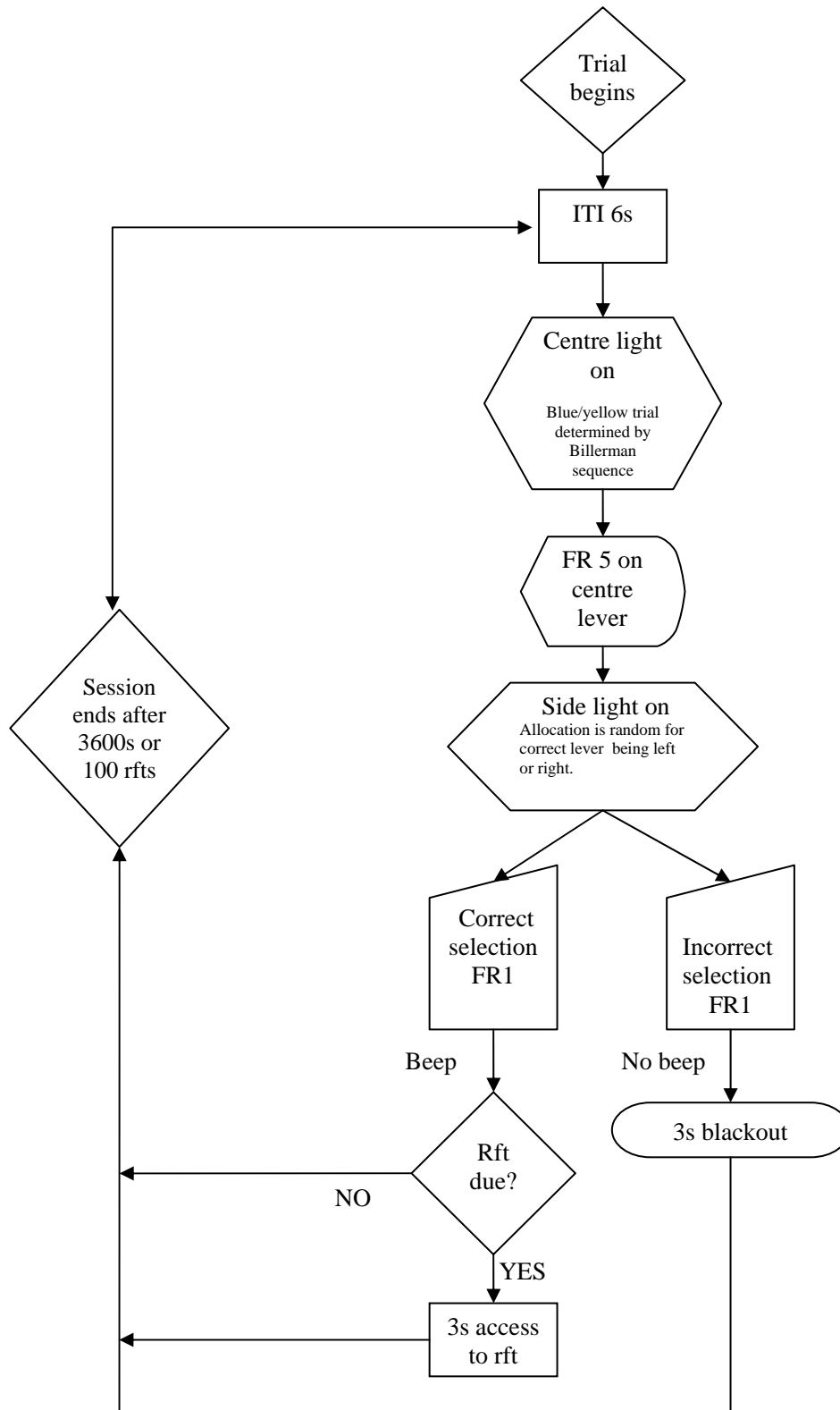


Figure 5. A flowchart describing the training trial procedure.

responses (FR 3) on a side lever before the selection was complete. Both choice levers remained active during the FR 3 schedule, therefore side lever selection could change by swapping to the other lever. A flow chart for the FR 3 trial procedure is in Appendix A. Upon each swap, the FR counter reset and a further three responses were required on the new selection before the trial was complete. The simultaneous MTS training procedure requiring a single press on the side lever was reinstated when possums were performing at above 85% correct for five consecutive sessions.

Table 2 outlines the number of training sessions required for each animal to perform the simultaneous MTS task with 85% correct or above for five days in order from least to most. Tables of session data are in Appendix C.

Trial Procedure

Prior to the initiation of a session for each subject, the food hopper was filled with the food mix and the tri-lever apparatus was inserted into the holes on the response panel. A test program was run to ensure training level stimuli, response levers and food hopper were operational. A loud beep sounded intermittently for the duration of the test program. For a probe session, the test program was run in addition to each LED was tested by a test routine programmed into the control chip that lit each LED sequentially for 0.01 s. The session automatically started when the experimenter turned off the test program.

The trial procedure for simultaneous MTS training was the same for training on MTS 0 s delays. One exception was that in simultaneous MTS the centre light remained on when the side lights were illuminated and in MTS 0 s delay the centre light turned off after the FR 5 was completed when the side lights

Table 2

The number of training sessions required for each animal to perform the simultaneous MTS task with 85% correct or above for five days in order from least to most during simultaneous MTS training . Changes to reinforcement delivery (either side or colour) or introduction of the FR3 procedure are listed.

<i>Possum</i>	<i>Number of training sessions</i>	<i>Reinforcement program</i>
Ishan	51	Reinforcement for side and colour
Elroy	49	Reinforcement for side and colour
Charlotte	63	Reinforcement for side and colour
Hasty	74	Reinforcement for side and colour
Tom	74	Reinforcement for side and colour
Sparky	95	Reinforcement for side and colour
Taylor	127	FR3 procedure
*Bonnie	130	FR3 procedure
*Marmite	140	Reinforcement for colour, then FR3 procedure
Gus	196	FR3 procedure

*denotes the possum did not reach the 85% criterion and was retired.

were illuminated. Delivery of reinforcement was delivered as in the simultaneous MTS training procedure.

All sessions ended after 3600 s or 100 reinforcements, whichever occurred first. The tri-lever apparatus was removed after the session. A computer system running MED™ software and interface located in an adjacent room, recorded all data and controlled the experimental events. Coded event data was recorded for each training and probe trial; correct and incorrect values for left/right trials, left/right reinforcements, and cumulative latencies to the left/right, overall correct responses, trial count, percent correct, total time and aborts (as in Appendix C). The number trials, derived percentages of blue/yellow and right/left correct selections, and overall percentage of correct trials were recorded each session in a log book. For probing sessions, derived percentage correct, number of trials and number of aborts for each level were recorded each session in a log book.

Each possum was trained on MTS simultaneous presentation at level 1 followed by MTS 0 s delay at each of the levels 1 to 5. Each possum was required to respond with 85% correct or above for five consecutive sessions on the training level to proceed to probe sessions.

Probe Procedure

A probing session consisted of five trials at the training level and one trial at each of the five levels. These 10 trials formed a block in which the order of trials occurred randomly. For example, if the currently training level was level 2 then one block of 10 would consist of five trials at level 2 and one trial each at levels 1, 2, 3, 4, and 5. The delivery of reinforcement was specific to side only (as

in Phase Three) to increase the rate of reinforcement. This was done because only the trials at the current training level were reinforced. An abort feature ended a trial if the possum had not responded within two minutes and this level was not presented again within the block of 10 trials.

Probing at each training level was completed after 50 ± 4 accumulated trials at each probe level over a minimum of four probing sessions. Following the conclusion of the probe sessions, training at the next level was introduced in the next session.

RESULTS

Table 3 details the stimuli level at which each possum completed training and probing. Overall, only four possums completed probe sessions at all five levels; Sparky, Hasty, Ishan and Elroy. Tom completed level 1 MTS 0 s and Charlotte and Taylor completed level 3 MTS 0 s. Refer to Appendix B for simultaneous MTS training graphs. The graphs show that for some possums over 100 sessions were required to reliably perform the MTS task (Figure B1). Figures B2 and B3 indicates some side and colour biases shown by some possums.

Figure 6 shows the average percent correct from level 1 and level 5 probes over all training levels as a function of training level 1 and 5 for Sparky, Hasty, Ishan and Elroy. The graphs indicate that responding at level 1 was more accurate than at level 5 for all possums with accuracies above 50% correct for both levels.

Figure 7 (extends over two pages) shows $\log dH$, this was calculated by casting each set of data into a 2 x 2 array with correct and incorrect trials for blue and yellow separately. Log dH was then calculated as:

$$\log dH (0.5 \log(\frac{BlueCorrects}{BlueIncorrects}) + 0.5 \log(\frac{YellowCorrects}{YellowIncorrects}))$$

As there were occasional sessions in which no errors were made the correction proposed by Hautas (1995) was applied to all data. This involves adding 0.5 to the scores in each cell prior to calculating $\log dH$. These $\log dH$ values are plotted against successive probe levels following training at each level at Figure 7.

Column 1 shows the $\log dH$ from each probe level following training at level 1 on a simultaneous MTS task. Column 2 shows the $\log dH$ from each probe level

Table 3.

Level of completed training and probing for each possum

<i>Possum</i>	<i>Training (at 85% criterion) and probing level completed</i>
Sparky	5 MTS 0s
Hasty	5 MTS 0s
*Marmite	Simultaneous MTS at level 1
**Tom	1 MTS 0s
Ishan	5 MTS 0s
Charlotte	2 MTS 0s
*Bonnie	Simultaneous MTS at level 1
*Gus	Simultaneous MTS at level 1
Elroy	5 MTS 0s
Taylor	2 MTS 0s

* denotes possums that did not reach the 85% criterion in simultaneous MTS and did not produce data for analysis.

**Tom died before completing probe testing at level 2. Autopsy results showed that the experiment did not contribute to his death.

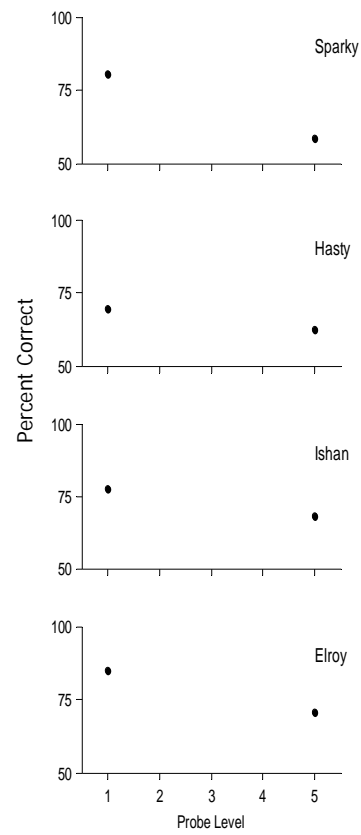


Figure 6. Mean percent correct of level 1 and level 5 probe data across training levels.

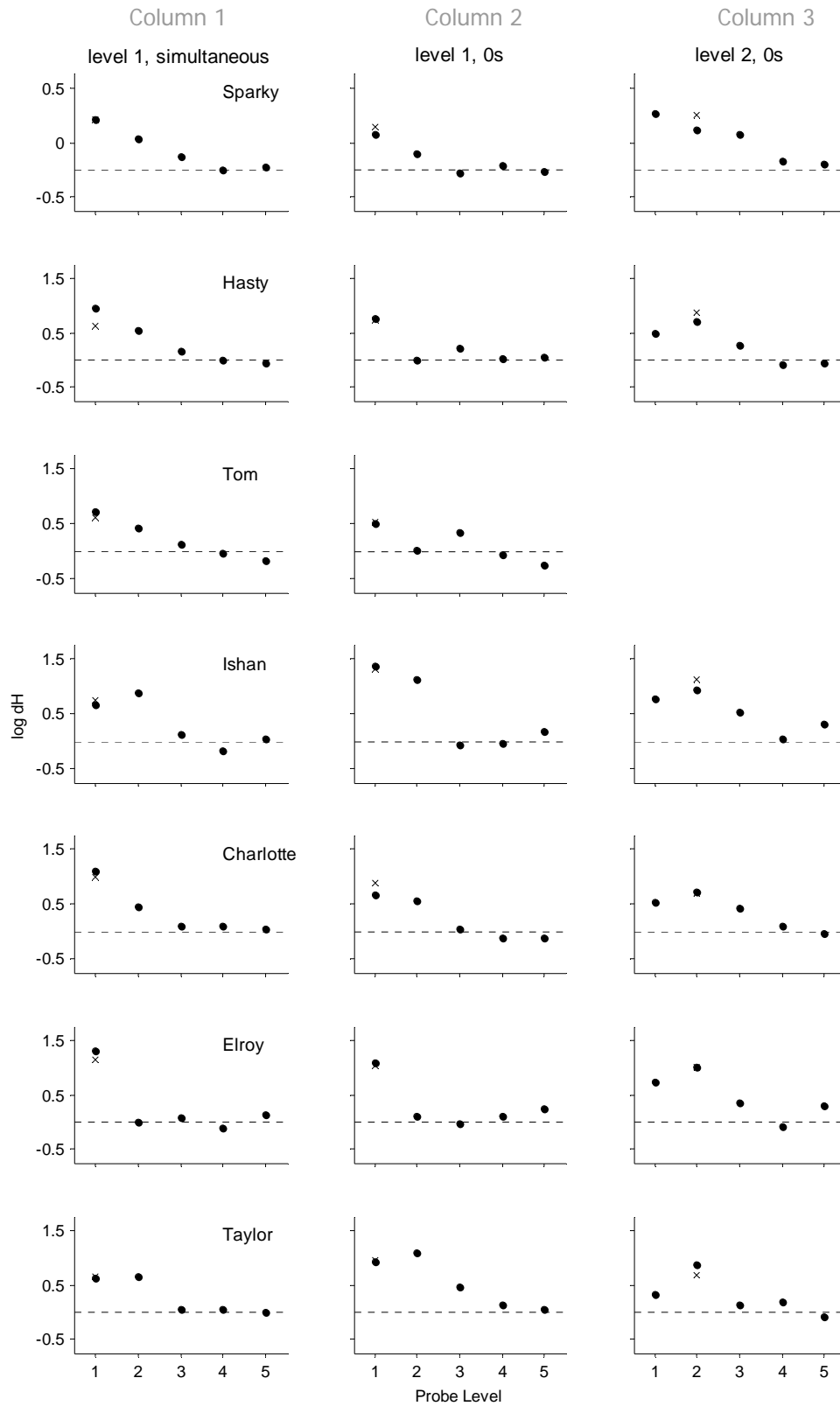


Figure 7. Log dH as a function of probe levels for each of the training conditions: level 1, simultaneous MTS (column 1), level 1 MTS with 0 s delay (column 2), level 2 MTS with 0 s delay (column 3), level 3 MTS with 0 s delay (column 4), level 4 MTS with 0 s delay (column 4), and level 5 MTS with 0 s delay (column 6) for possums that probed above level 1 0 s delay. (Continued on next page).

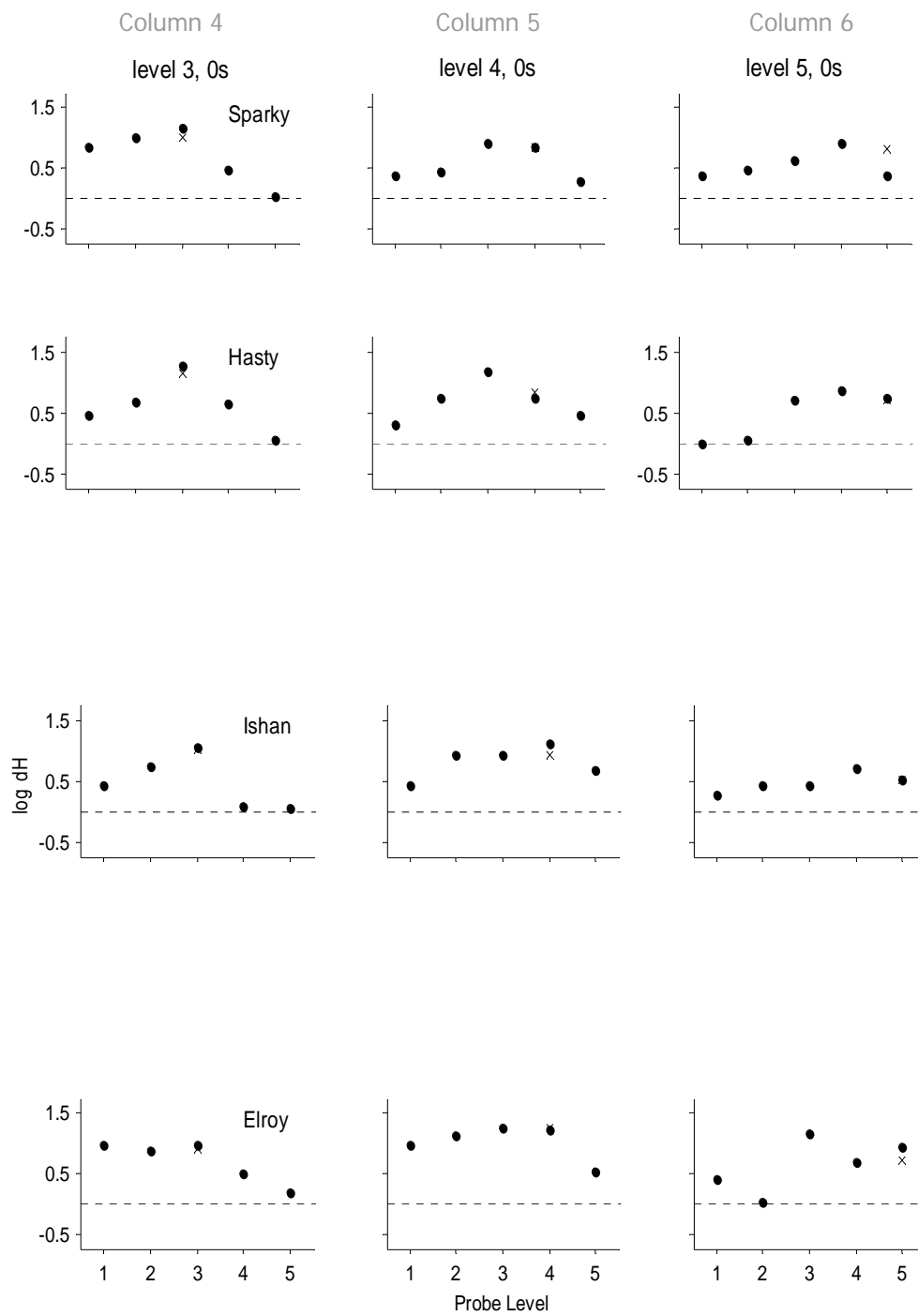


Figure 7 continued

following training at level 1 in a MTS task with a 0 s delay. Data from Sparky, Hasty, Tom, Ishan, Charlotte, Elroy and Taylor are included in columns 1 and 2. Marmite and Bonnie, did not perform the simultaneous MTS task reliably and were retired. Gus did not complete the requirement for probe sessions in the simultaneous MTS task. Column 3 shows $\log dH$ after training at level 2 in a MTS task with a 0 s delay for Sparky, Hasty, Ishan, Charlotte, Elroy and Taylor. Column 4 shows $\log dH$ after training at level 3 in a MTS task with a 0 s delay. Column 5 shows $\log dH$ after training at level 4 in a MTS task with 0 s delay. Column 6 shows $\log dH$ after training at level 5 in a MTS task with 0 s delay. Data from Sparky, Hasty, Ishan and Elroy are included in columns 4, 5 and 6. The cross within the axis of each graph represents the level of accuracy at the training level for that set of probe trials.

Level 1 Simultaneous MTS

In column 1 of Figure 7, data for all possums showed peak performance at the training level (level 1) and lowest performance at level 5. For four possums, Sparky, Hasty, Tom and Charlotte, the decline in performance from level 1 was smooth and monotonic. Ishan showed a slight peak in performance at level 2 and both Elroy and Taylor showed sharp falls followed by essentially chance performance at higher levels.

Level 1 MTS 0 s delay

In column 2 of Figure 7, the graphs show that probe performance peaked at the training level. The decline in performance from level 1 to level 5 was not as monotonic as training in simultaneous MTS with performance. For Sparky, Hasty,

Tom and Elroy, performance on levels 2 to 5 was at or slightly higher than zero. Ishan shows high performance at level 2 followed by a sharp fall at level 3 while performance peaks at level 2 for Taylor.

Level 2 MTS 0 s delay

In column 3 of Figure 7, there was peak performance for all possums at level 2, except for Sparky. At level 1, performance for all possums, except for Sparky, fell. For all possums, except Taylor, level 3 probes were higher when training at level 2 than at level 1.

Level 3 MTS 0 s delay

In column 4 of Figure 7, the data for Sparky, Hasty, and Ishan show an upward trend from level 1 to peak at level 3 when training is at level 3. Elroy performed at a similar level for levels 1, 2 and 3. Sparky, Hasty and Elroy show a monotonic trend from level 3 to level 5. Data for Ishan peaked at level 3 but fell to zero in levels 4 and 5. Performance at level 1 and 2 was generally higher than at levels 4 and 5.

Level 4 MTS 0 s delay

In column 5 of Figure 7, Sparky and Hasty showed peak performance at level 3 with an increasing performance trend from level 1 to level 3. Performance dropped off at levels 4 and 5. Ishan and Elroy showed peak performance at level 4. Elroy showed consistency across levels 1 to 4 with little variation. All possums showed performance at level 5 probes was higher when training at level 4 than at level 3 showing performance increases as probes approach the training level.

Level 5 MTS 0 s delay

In column 6 of Figure 7, data for Sparky, Hasty and Ishan showed peak performance at level 4. Sparky and Ishan showed an increase in performance from level 1 and a fall in performance in level 5. For Sparky, performance at level 5 was equal to that of level 1. Hasty showed chance performance for levels 1 and 2 and consistently high performance at levels 3, 4 and 5. Elroy showed decreased performance at levels 1 and 2. Performance peaked at level 3 with a drop at level 4 and small increase at the trained level.

Overall, probe performance at the trained level peaked for levels 1, 2, 3 and 4 when each of these was at the training level. Probe performance at levels around the trained level tended to decrease monotonically.

Figure 8 (extends over two pages) presents the same data as Figure 7 but is sorted as to show the data from one particular probe level across all training levels. Figure 8 shows $\log dH$ as a function of each training level for all probes at level 1 on 0 s delay MTS task (row 1). Row 2 shows the $\log dH$ of each training level for all probes at level 2. Row 3 shows $\log dH$ of each training level for all probes at level 3. Row 4 shows $\log dH$ of each training level for all probe at level 4. Row 5 shows $\log dH$ of each training level for all probe at level 5.

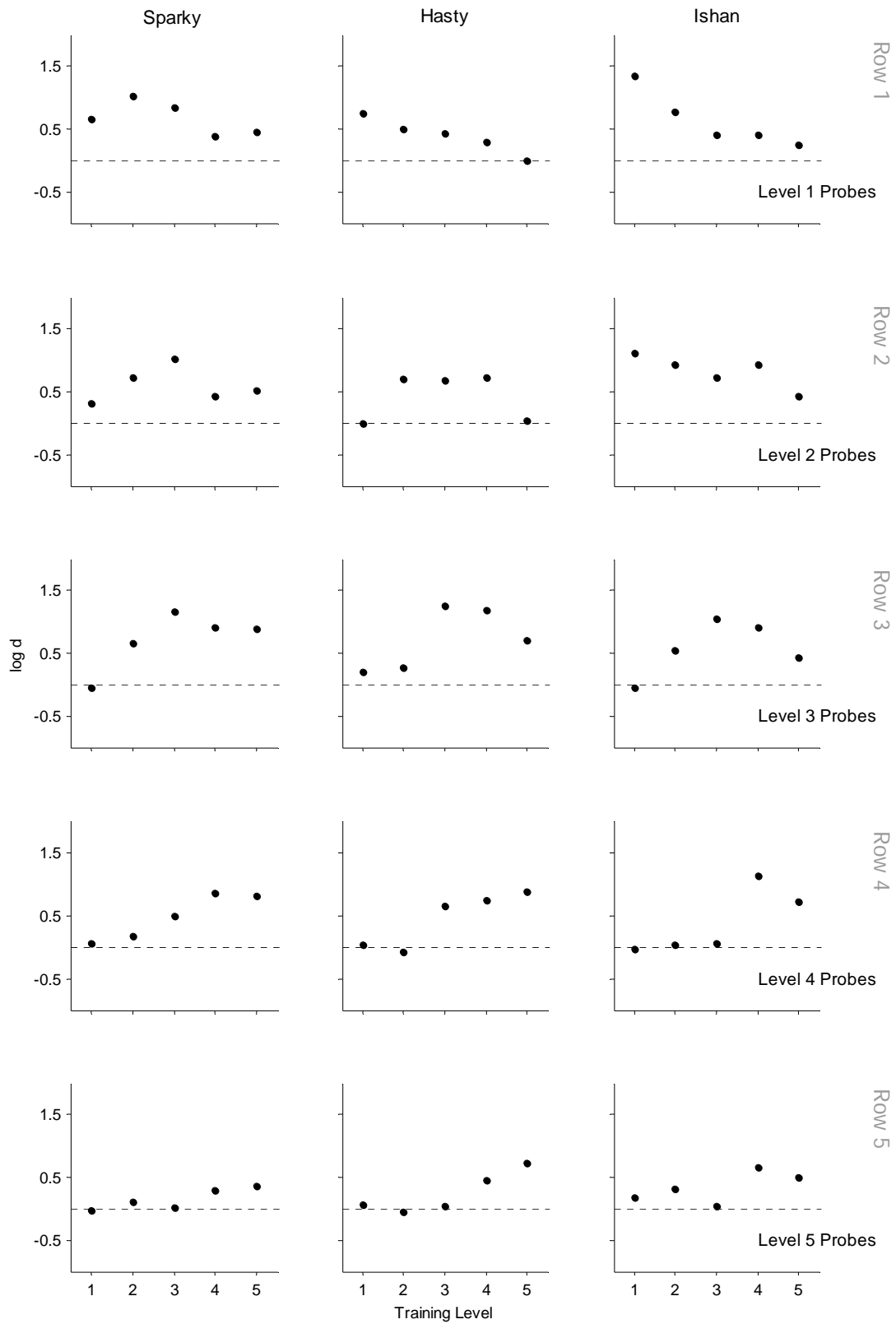


Figure 8. Log dH as a function of training levels for all probing at each level: level 1 probe trials (row 1), level 2 probe trials (row 2), level 3 probe trials (row 3), level 4 probe trials (row 4), and level 5 probe trials (row 5) for possums that probed above level 2 training. (Continued on next page).

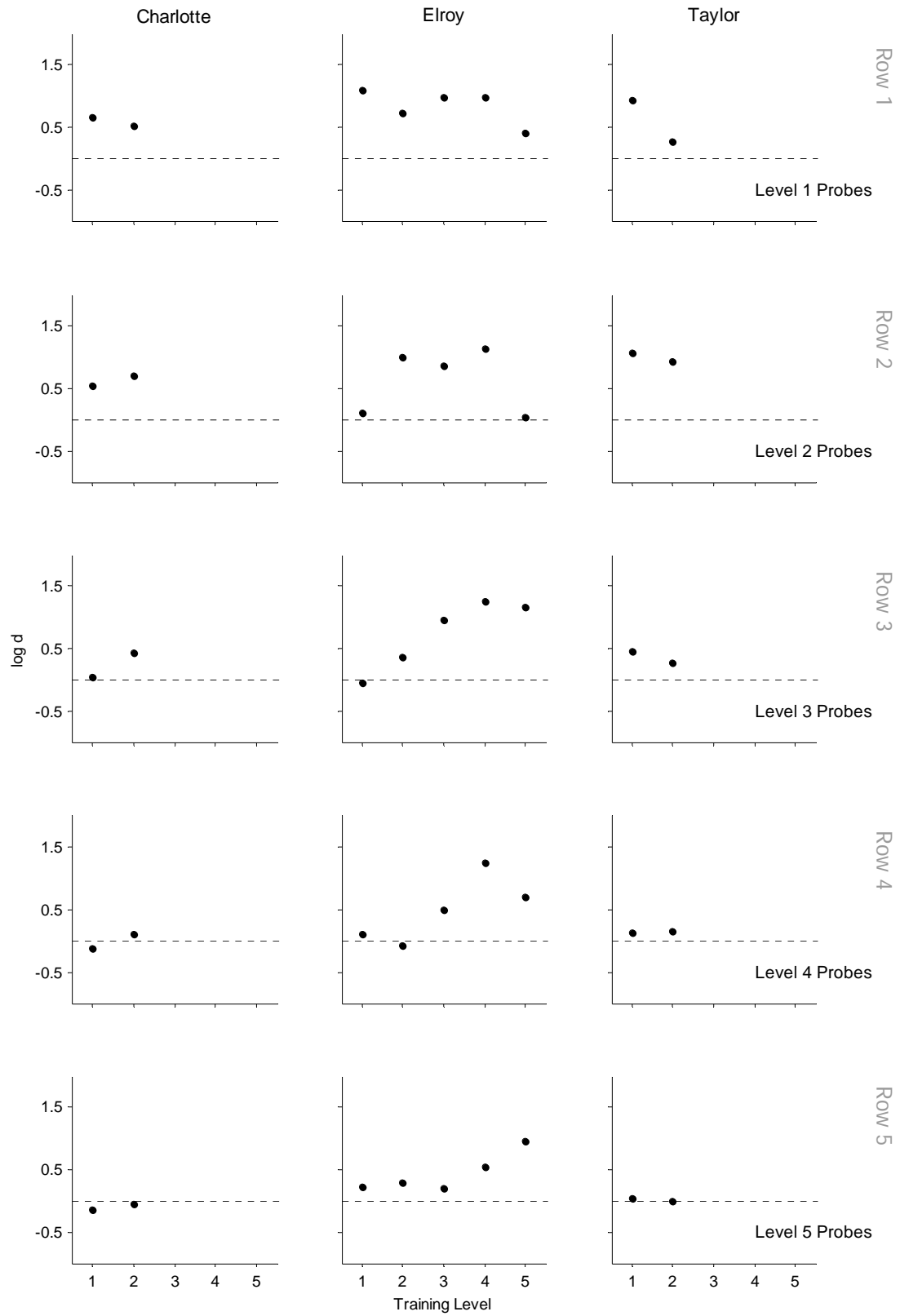


Figure 8 continued

Level 1

In row 1 of Figure 8, at level 1 across all levels, performance peaked when trained at level 1 for all possums except Sparky. Level 1 probe performance decreased monotonically for Hasty and Ishan from training at level 1 to training at level 5. Sparky showed peak performance when training at level 2. Elroy showed a peak at level 1 with a sharp fall when training at level 2, but an increase for training at levels 3 and 4, then a sharp drop when training at level 5. Charlotte and Taylor showed higher performance in level 1 probes when training at level 1 compared to training at level 2.

Level 2

In row 2 of Figure 8, performance for level 2 probes did not generally peak at level 2 training. Hasty and Charlotte showed peak performance at level 2 training while Ishan and Taylor show a peak at level 1 training, Sparky at level 3 training and Elroy at level 4 training. For all possums except for Ishan and Taylor level 2 probes fell at level 1 training and probes at level 5 training were comparatively low.

Level 3

In row 3 of Figure 8, Sparky, Hasty, and Ishan show performance peaks in level 3 probes at the level 3 training level. Level 3 probe performance is decreased at level 2 and 4 training, and more so for level 1 and 5 training. Elroy shows peak performance for level 3 probes when training at level 4, with level 3 probes higher at level 5 training than level 3 training.

Level 4

In row 4 of Figure 8, Hasty's data show that level 4 probes peak at level 5 training. Sparky, Ishan and Elroy show a performance peak for level 4 probes at level 4 training with performance at level 5 training higher than level 3 training. Level 4 probe performance was lower for all possums during level 1 and 2 training.

Level 5

In row 5 of Figure 8, Sparky, Hasty and Elroy showed peak performance at level 5 probes when trained at level 5, with performance increasing from the lower training levels to level 5. Ishan showed peak performance for level 5 probes when training at level 4.

From these two figures (10 and 11) it can be seen that generally the highest performance occurs in probes at the current training level. There is some generalisation to nearby levels. Figures 10 and 11 show that once training had progressed to around levels 3 to 5 performance on the probes at the initial training levels (1 and 2) started to fall.

DISCUSSION

The purpose of this experiment was to change the distance between stimuli and response manipulanda and observe behaviour on a matching to sample task. The results indicate that performance at level 1 across all training levels was considerably higher than performance at level 5. These findings imply that locating the stimuli and response manipulanda as close together as possible will produce more accurate performance in a matching to sample task, at least for possums. In addition, performance during probe trials was most likely to peak at the current training level and fell away as the levels differ.

Previous research at this lab had found very poor DMTS performance compared to other species. All possums required training for up to 300 sessions to reach performance criteria, and there were many failures to learn the task. One problem that *may* have contributed to these previous failures was the placement of the stimuli lights at approximately 55 mm above the response lever. For example: in a DMTS task at 0 s delay, up to 260 sessions were required to reach a criterion of 90% correct with flickering and still stimuli. The average was 135 sessions for six possums. For 1 s delay, an average of 140 sessions was required for three possums, and for 2 s delay, 40 and 80 sessions were required for two possums. For the present experiment, more possums learned the MTS task than in previous experiments, the average number of training sessions required for possums to reliably perform simultaneous MTS at level 1 was 81 sessions for six possums. The average number of sessions to learn the MTS 0 s delay task at level 1 was 15 sessions for six possums. For level 2, the average was 24 sessions and for level 3 the average was 17 sessions. For levels 4 and 5, the averages were 16 and 25

sessions respectively. The present results, with high performance at level 1 and comparatively fewer sessions required at each training level than previous experiments suggests that DMTS would be much more readily learned if the stimuli were located immediately above the response lever.

This suggestion is in keeping with the current methodology for experimental research with hens and pigeons and most other species where the stimuli also function as the response keys. Unfortunately, this author knows of no empirical study that tests the validity of such practice therefore, use of such methodology is largely based on logical appeal. For example, in a hen experiment an animal pushes the key for food with her beak, which is a hen-like behaviour. Experiments with humans commonly utilize a touch screen where identification of a 'correct answer' is determined by touching the screen with one finger. (Robbins et al., 1997). As previously noted, Jarvik, (1953) found that combining reinforcement and the response task elicited more responses by rhesus monkeys and one spider monkey. In addition, Webster (1975), using possums, selected to combine reinforcement, stimulus and response manipulanda requiring a discrimination between a vertical and horizontal carrot. This required a considerably shorter time for possums to learn than when stimuli and response levers were separated. In addition, apparatus for eradicating possums utilizes a combination of stimuli and response manipulanda. For example, flour baits are usually white and scented to entice the animal into consuming the substance (Parliamentary Commissioner for the Environment, 2000). WaxTags® that monitor possum populations have been tested with numerous white materials attached immediately above the area where possums bite (Thomas & Maddigan, 2004). This logical approach now has a tested measure of validity.

One aspect of these results contrasts with previous finding with possums and DMTS. This experiment was successful in producing accurate performance with stimuli up to 105 mm away from the manipulanda (unlike the previous results). However, this came only after training at progressively greater distances. This entire process was similar to reinforcement of successive approximations as a means of producing a particular behaviour. The closest analogy to these present findings probably can be found in the “errorless discrimination training” literature.

Errorless discrimination training is a procedure originally reported by Terrace (1963a) that is designed to train a discrimination between two stimuli, one reinforced stimulus (S+) and one unreinforced stimulus (S-) without allowing responses or ‘errors’ to the S-. This is achieved by firstly, training responding to the S+ only. The S- is introduced for short periods of time with presentations gradually lengthening. The S+ is replaced if the subject is about to respond to the S- to avoid response errors (Terrace, 1963a). In another experiment, Terrace (1963a) successfully trained pigeons to discriminate red (S+) and green (S-) with few errors made to the green key. Terrace (1963a) started by presenting a pigeon with a lit red key. After the first five trials with only the red key presented a dark green key was presented for 2 s. The red light was presented after the 2 s. Presentation of the dark green key were gradually increased to a maximum 30s ($M=15$ s) over 20 reinforcements. Following this, the intensity of the green key was increased and presented for 1 s. The intensity and presentation time was gradually increased over trials to be equal to the right key in intensity and presented for 5 s. Terrace (1963a) showed that this method of ‘fading in’ a stimulus to guarantee minimal responding with far fewer errors to the green key

than in a typical multiple schedule experiment where behaviour to only one stimulus is reinforced. Terrace (1963b) trialled this procedure against other discrimination learning procedures to train pigeons to discriminate a vertical (S+) and horizontal (S-) line. One group received only vertical and horizontal line discrimination training where only responding to the vertical line was reinforced and three pigeon groups learned the discrimination between a red and green key as in Terrace (1963a). Following this training, one group were presented with a vertical line replacing the red light and a horizontal line replacing the green light, one group had five trials where the vertical line was added to the red key and a horizontal line to the green key, but on the following trial the colour was abruptly removed. The final group had extra lines added to the red and green keys. The intensities of the red and green keys were gradually decreased over trials within one session leaving only the vertical and horizontal lines. The results showed that the group presented with fading of colour stimuli produced the fewest number of responses to the key with the horizontal line (S-) compared to the other groups. This shows that errorless discrimination training is successful when training pigeons to discriminate two stimuli with few or no errors.

In the current MTS experiment, the distance between the stimuli and response manipulanda was gradually increased until a distance of 105 mm was reached. This is similar to the process of fading stimuli as in errorless discrimination training where an aspect of one stimulus, such as intensity or presentation time, is altered but is designed to retain the same effect on responding, as proposed in errorless learning. Original training, at level 1, produced accurate responding. This accuracy was then maintained as the distances between the stimuli and response levers were faded towards the 105 mm distance.

Dimensions of physical distance and delay have similar properties. In this MTS distance experiment, possums demonstrated a lack of accuracy when the stimuli were further away from the response levers *and* when performance was tested at locations that differed from the trained level.

These data, to a degree, parallel some from White and Cooney (1996). White and Cooney, in a DMTS task, delivered two different reinforcer ratios for correct responding with two different delays. They found that responding at the two delays was, to a degree, independent and also that all birds had a higher proportion of correct responses at 0.1 s delay than at 4 s delay when the proportions were averaged over all conditions. The same effect was found between level 1 and level 5 in the current experiment (Figure 6) and shows a similar effect as in Figure 9 from White and Cooney (1996) that shows the proportion of correct responses over delay. These graphs confirm the statement by White and Cooney (1996) that there is little difference between temporally discriminative events and spatially discriminative events. That as the distance increases between the stimuli and the required response, by either seconds or millimetres, there is a reduction in the ability to respond accurately.

White and Cooney (1996) concluded that the temporal difference between events in any one condition is discriminating the stimulus *and* delay, which is consistent with the theory of 'direct remembering'. That is: "remembering is directly influenced by the temporally distant sample stimuli in conjunction with instructional and retrieval cues and may be strengthened by its consequences" (White and Cooney, 1996, p.58). In other words, a delay serves as a conditional cue to a choice key strengthened or weakened by the length of the delay.

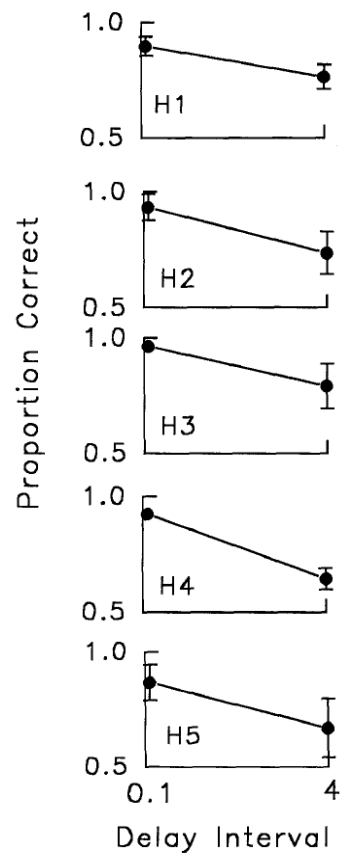


Figure 9. The proportion of correct responses as a function of delay (0.1 s and 4 s) for pigeons in a DMTS task. From White and Cooney (1996, with permission).

White and Cooney showed a strong discrimination between 0.1 s and 4 s. McCarthy and Davison (1980) also showed a strong discrimination between the 'easy' discrimination of delays 5 s and 30 s, but results showed that subjects could not discriminate 'difficult' delays of 20 s and 30 s to the same degree. This simple comparison illustrates that the degree of discriminability, in that, closeness of retention intervals has an effect on responding behaviour. If discriminability between stimuli is low then more equal performance will occur with similar stimuli, as in the DMTS experiment by Sargisson and White (2001).

Sargisson and White (2001) trained pigeons in a DMTS test to discriminate red and green key lights using only one delay of either 0, 2, 4 and 6 s. Then each group was exposed to probe sessions with 0, 2, 4, 6, 8 and 10 s delays. Figure 10 from Sargisson and White (2001) shows that the proportion of correct responses peaked at the trained level. For the birds trained at 0 s the data were similar to many other DMTS data sets and showed peak performance at 0 s (training level). Performance then fell away as the delay increased to 10 s. However, for birds trained at other delays peak performance occurred at the trained delay. Performance at shorter delays than the trained delayed performance was similar to trained delay performance. For example, when training at 4 s, performance peaked at 4 s. Probed performance at 0 s and 2 s was similar to the level of performance at 4 s. In addition, pigeons that trained at a 6 s delay showed consistently high performance at all delays, as the gradients are flat. The results illustrate that training at a single delay above 0 s will more likely result in subject performance with higher accuracy at greater delays. This supports White and Cooney's (1996) statement that the independence observed between 0.1 s and 4 s

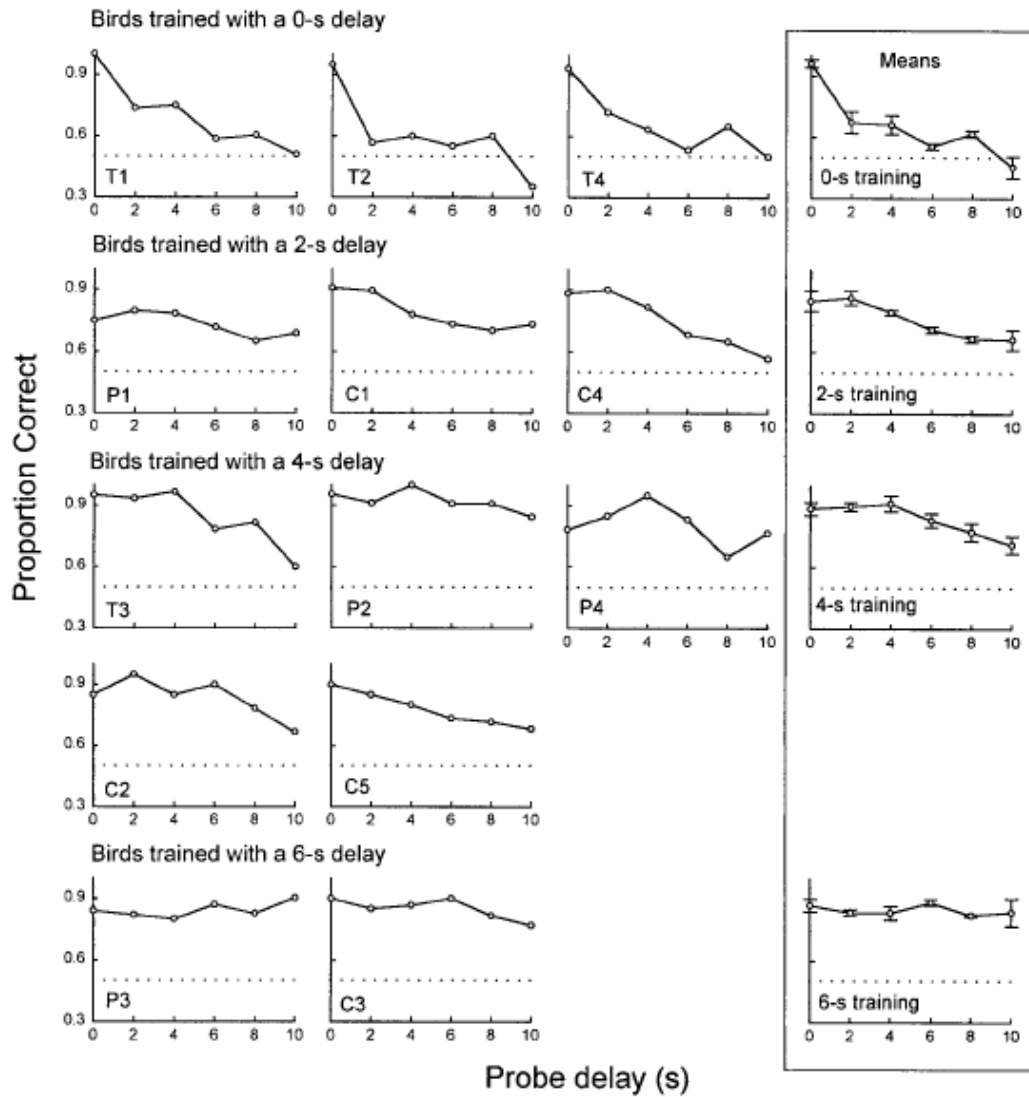


Figure 10. The proportion of correct responses of each bird trained at 0, 2, 4, and 6 s delay as a function of probe delay. From Sargisson and White (2001, with permission).

would not hold between shorter delays as the stimuli are less discriminable and performance will generalise.

In the current experiment generalisation occurred between the training level and the closest stimuli to that level. However, the gradients were not as flat as those found by Sargisson and White (2001), but monotonic as in generalisation tests of luminance. Guttman and Kalish (1956) trained a pigeon to respond on a yellow key of 580 nanometre wavelength. They probed similar wavelengths and found performance peaked at the trained wavelength and fell away asymmetrically as the test stimulus moved away from the trained wavelength. In the current experiment, the data suggests that possums were unable to discriminate similar levels reliably from the trained level, and performance generalised to these levels of 'similar' distance. However, not to the same degree as generalization occurs to similar delays. Figure 7 (columns four and five) show the same shape as Guttman and Kalish (1956). However, this may be due to the methodological difference between the current experiment and Sargisson and White (2001).

The methodology used by Sargisson and White (2001) was a between-subjects design, whereas the current experiment utilized a within-subjects design. A between-subjects design for this experiment would likely have failed as previous attempts at training MTS in possums with stimuli at a distance provided few successes after hundreds of training sessions. However, a comparison is still warranted, regardless of a potential training confound. For the Sargisson and White (2001) experiment, a single delay was trained prior to testing six probed delays with multiple groups of pigeons training at different delays. In comparison, the current experiment trained the MTS task at each of the five levels in sequence

and tested performance at all other levels at each training level. It appears that for this particular task gradual increases in difficulty may have been the only way to ensure performance at higher levels.

Spetch and Rusak (1992) presented delay stimuli using a similar method to the current experiment and found comparable results. They trained pigeons at either a 0 or 5 s delay then tested performance to 0, 5, 10, 15, 20 s delay. In addition, they trained a group of pigeons at delays of 0, 5, 10, 15, and 20 s, presenting the 10 s delay more than any other delay. The pigeons that trained at either 0 or 5 s showed peak performance at the trained delay with performance declining as the delay increased. This is analogous with this experiment and is typical of delay experiments that train at short delays and test longer delays (Sargisson and White, 2001). For pigeons trained at 10 s delay plus other delays, then tested at all delays there was a generalisation gradient similar to those shown in the current experiment (Figure 10, column four) and Guttman and Kalish (1956) where performance peaked at the trained level then fell away asymmetrically from this value. Spetch and Rusak (1992) concluded that the peak in performance at 10 s delay was due to the subject's familiarity with the particular stimulus over the other delays. This idea of familiarity was specifically evident in this experiment in Figure 8s (row one and five). Row one shows performance at level 1 (during probing) over all training levels decreased as the training level increased from 1 to 5. This showed that even after training at level 1, performance at level 1 was not retained when training at the higher levels suggesting it was familiarity with the trained level, rather than application of a learned task that determined accuracy.

White and Cooney (1996) showed that 0.1 s and 4 s delay were highly distinguishable compared to differences in delay of 2 s. In contrast, Sargisson and White (2001) found that behaviour would generalise across a range of delays separated by 2 s as long as training had taken place at least one delay that was greater than 0 s delay. Spetch and Rusak (1992) showed similar generalisation effects to the current experiment using 5 s delay increments. This suggests some equivalence between time and distance. However, any equivalence, other than a conceptual parallel between time and distance is likely to be quite specific to the species, task and stimuli concerned.

The findings from this experiment provide evidence for placing stimuli and response manipulanda close together to improve acquisition of a task, and increase the responding accuracy in DMTS experiments. This suggests that the relative position of stimuli and response manipulanda is critical to possums performing a MTS task. Previous DMTS experiments have shown that possums do not respond reliably to stimuli after very short delays. However, utilizing the present results, a replication of the DMTS experiment may show improved responding to stimuli. These findings also have implications for experiments other than MTS and could be applied to study involving other marsupials.

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APPENDIX A

A diagram of the flowchart describing the FR3 trial procedure that was designed to increase exposure of the side stimuli to four possums.

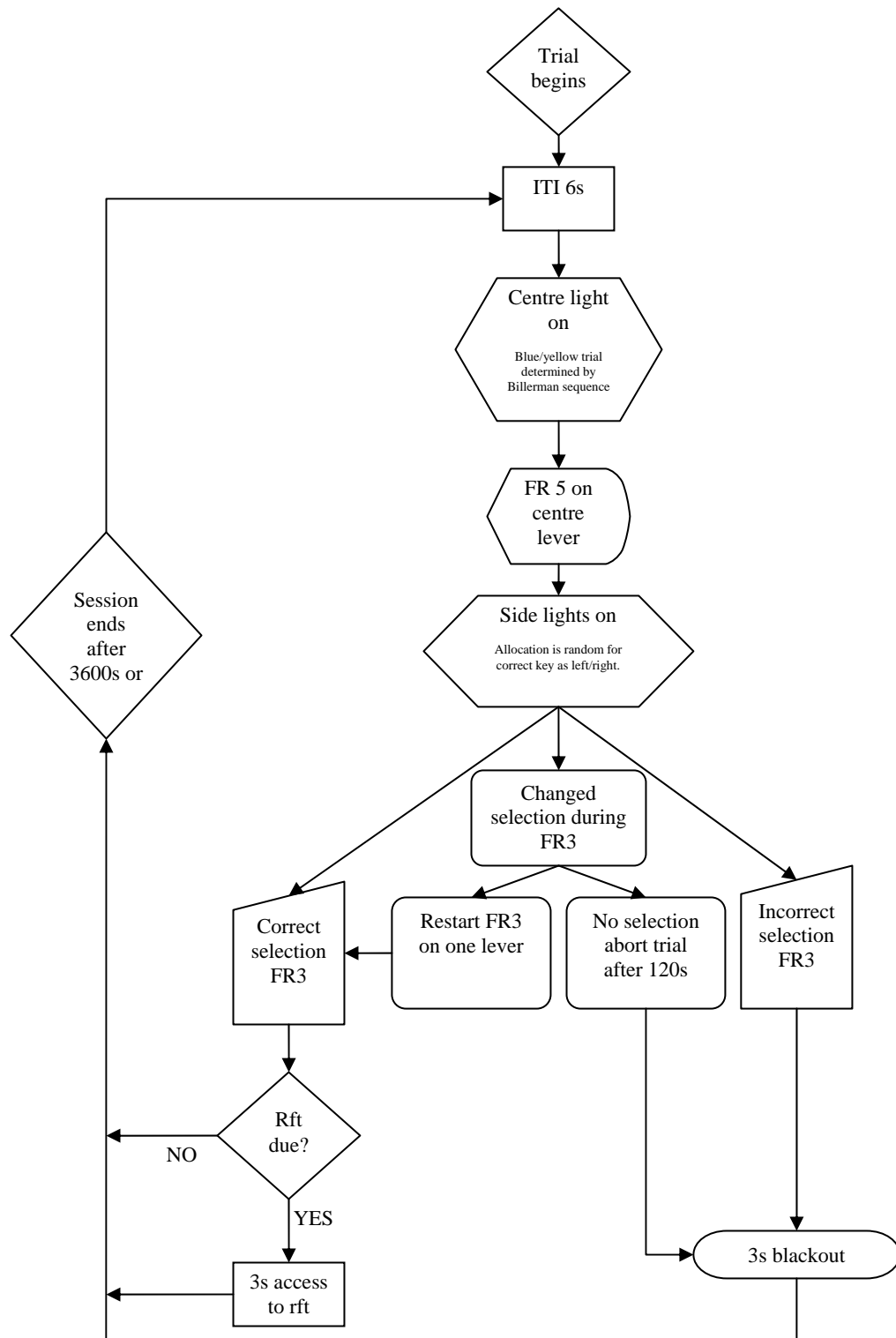


Figure A1. A flowchart describing the FR3 trial procedure.

APPENDIX B

Graphs of simultaneous MTS training data. Figure B1 shows the percent correct of all responses across sessions. Figure B2 shows the percent correct of responses to the left and right lever across sessions. Figure B3 show the percent correct of responses to the blue and yellow light across sessions.

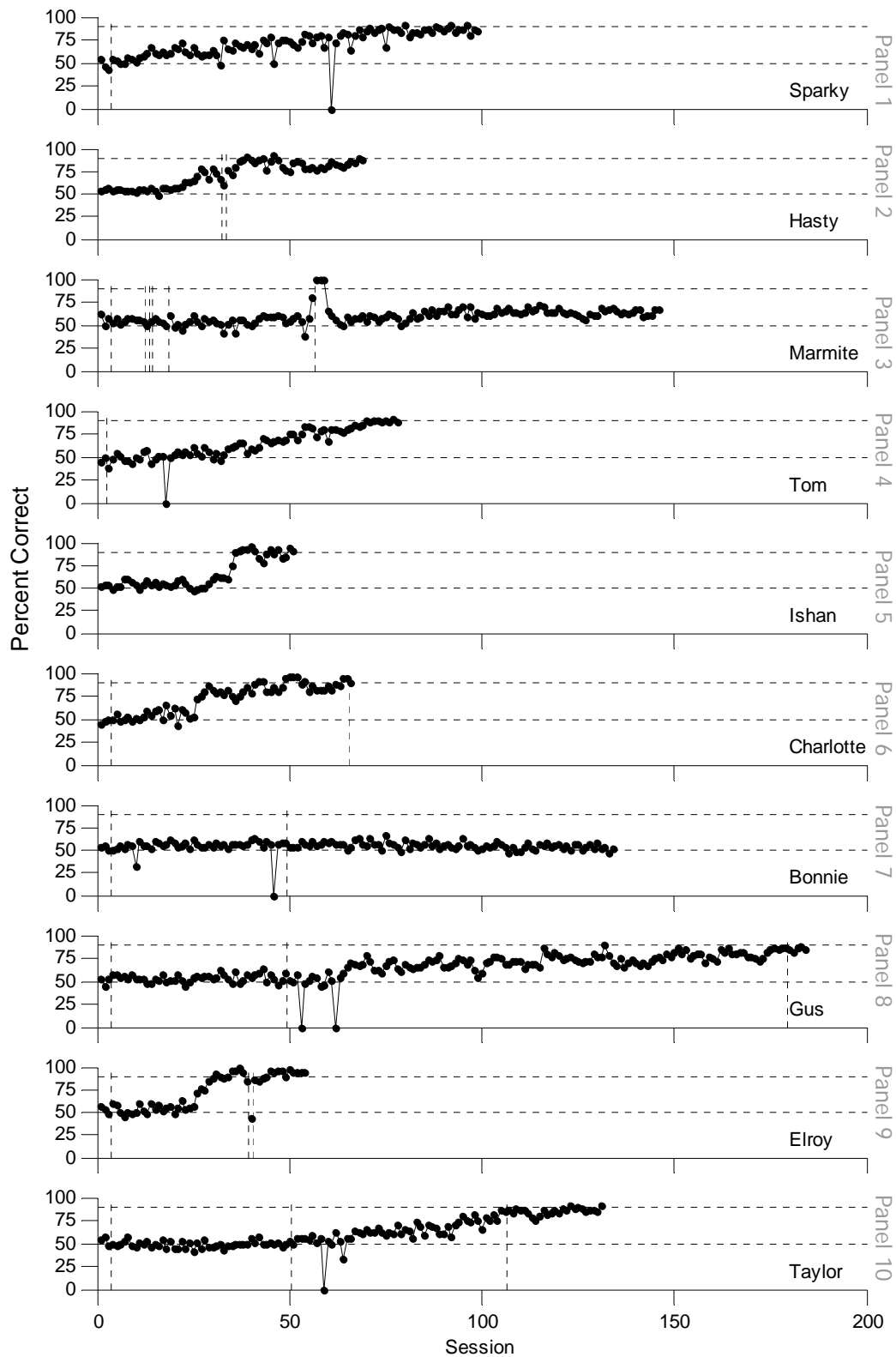


Figure B1. Percentage of correct responses attained by all possums over sessions of the simultaneous MTS level 1 condition. Horizontal lines indicate the 50% point and 85% criterion point. The vertical lines on graphs for Marmite, Bonnie, Gus and Taylor signify the introduction of the FR3 condition and when simultaneous MTS program was reinstated. When the percent correct was zero indicates problems with equipment or subject.

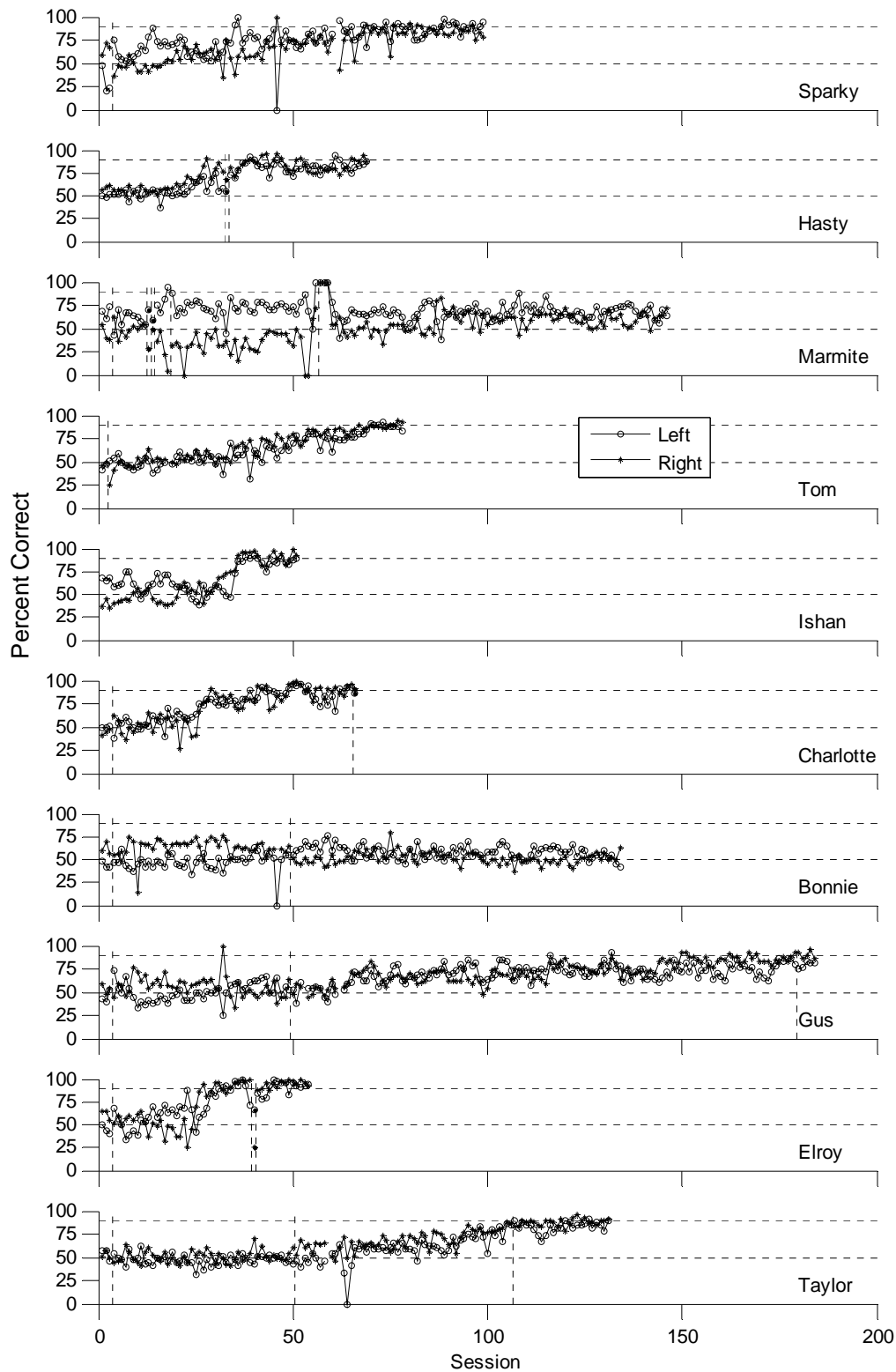


Figure B2. Percentage of correct responses to the left and right side attained by all possums over sessions of the simultaneous MTS level 1 condition. Horizontal lines indicate the 50% point and 85% criterion point. The vertical lines on graphs for Marmite, Bonnie, Gus and Taylor signify the introduction of the FR3 condition and when simultaneous MTS program was reinstated. When the percent correct was zero indicates problems with equipment or subject.

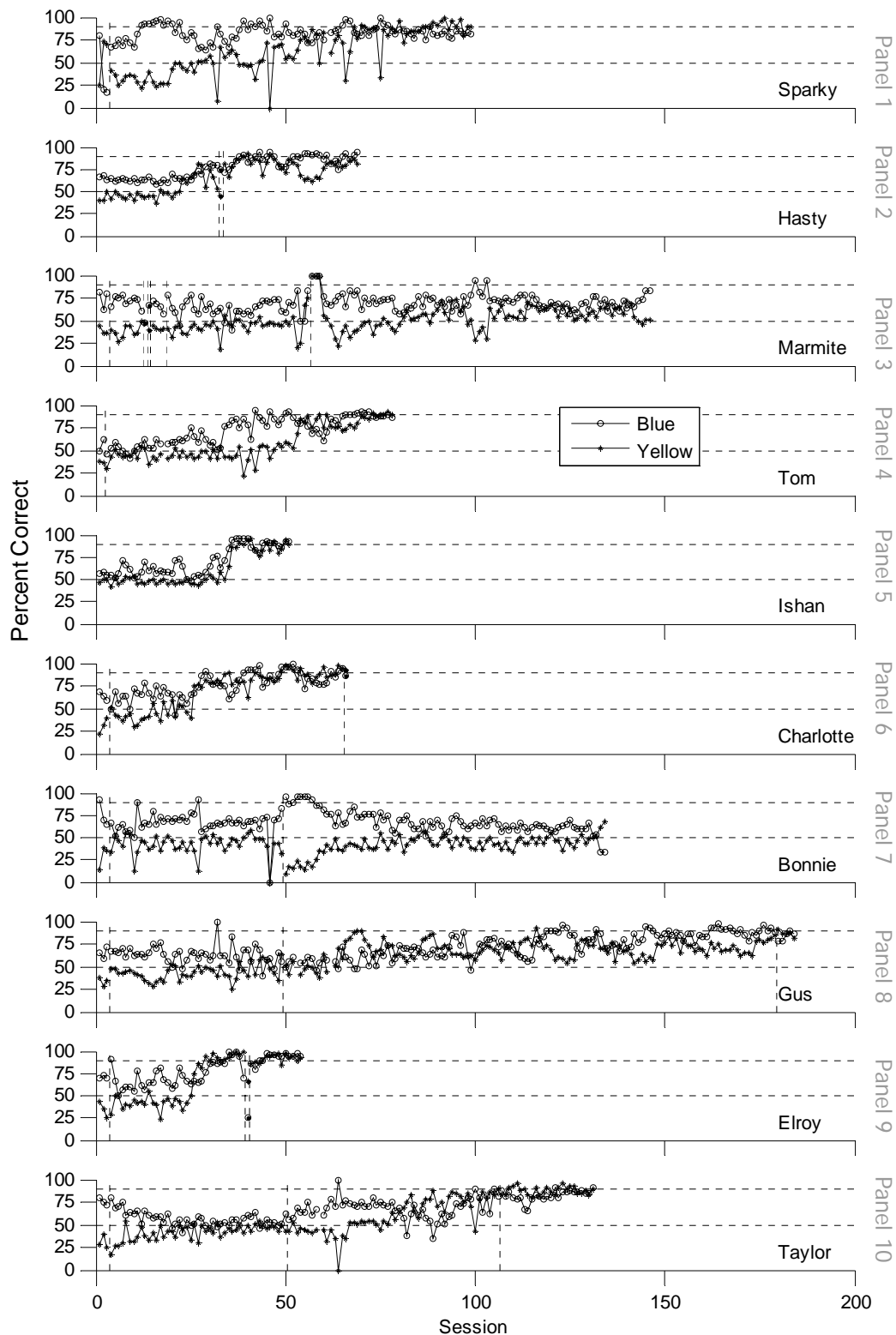


Figure B3. Percentage of correct responses to the blue or yellow colour attained by all possums over sessions of the simultaneous MTS level 1 condition. Horizontal lines indicate the 50% point and 85% criterion point. The vertical lines on graphs for Marmite, Bonnie, Gus and Taylor signify the introduction of the FR3 condition and when simultaneous MTS program was reinstated. When the percent correct was zero indicates problems with equipment or subject.

APPENDIX C

The raw data for all possums over training and probing sessions.

Matching to Sample, Blue versus Yellow, Initial MTS training and Simultaneous MTS training at Level 1

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Elroy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Del=Delay, L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative FR3, %=Percent correct, Ch=changes between levers (only FR3 condition)

Pos	Year	Day	Month	Blue												Ch	Pos	Year	Day	Month	Yellow												Ch																	
				Lcor	Linc	Rcor	Rinc	LRfts	RRfts	LatLcor	LatLinc	LatRcor	LatRinc	Lcor	Linc						Rcor	Rinc	LRfts	RRfts	LatLcor	LatLinc	LatRcor	LatRinc																						
MTS Training																																																		
1	8	19	9	1	2	4	0	1	2	11	67	56	0	3	1	2	1	2	30	11	71.4	1	8	12	12	44	10	43	9	15	13	663	67	366	160	50	6	33	17	13	10	673	56	280	225	80.2				
1	8	22	9	4	2	4	1	1	1	148	53	94	200	7	2	1	0	3	157	33	86	13	72.7	1	8	17	12	62	24	36	16	12	11	820	230	320	227	62	12	57	8	16	18	959	111	415	431	78.3		
1	8	23	9	1	1	3	1	1	2	10	10	41	9	4	0	3	1	1	1	47	0	61	2	78.6	1	8	18	12	61	5	41	23	19	10	771	53	386	329	49	9	56	16	15	8	757	87	481	279	79.6	
1	8	24	9	0	1	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	8	19	12	58	1	44	19	14	10	706	7	422	202	27	33	34	29	12	7	400	259	383	442	66.5
1	8	24	9	7	0	5	2	4	2	103	0	63	23	5	0	7	2	4	2	45	0	145	23	85.7	1	8	22	12	65	8	46	28	21	12	878	78	409	377	53	20	68	6	20	12	846	148	505	80	78.9	
1	8	25	9	13	3	22	1	6	9	195	83	242	14	18	2	15	6	8	10	241	19	172	68	85	1	9	12	1	28	7	27	3	4	9	394	59	215	41	31	4	16	11	3	8	459	34	135	123	80.3	
1	8	26	9	41	0	30	0	17	13	667	0	333	0	36	1	30	1	18	14	527	10	403	15	96.6	1	9	8	1	31	0	8	8	2	2	528	0	85	827	18	2	10	16	0	3	282	25	87	653	72	
1	8	29	9	33	0	44	0	19	18	449	0	434	0	33	0	45	1	25	23	1850	0	471	8	99.4	1	9	13	1	46	13	68	5	20	15	631	105	617	57	56	8	48	18	18	14	808	69	427	204	83.2	
1	8	30	9	47	0	40	1	22	26	802	0	503	22	50	0	38	0	19	22	1209	0	541	0	99.4	1	9	14	1	62	6	76	8	21	19	879	44	654	109	61	8	48	35	14	13	826	62	393	480	81.3	
1	8	1	10	44	7	39	13	29	21	650	61	361	227	3	45	23	30	11	2	55	425	225	523	53.4	1	9	15	1	81	0	67	3	18	25	1190	0	506	33	36	39	10	66	4	12	496	334	145	916	64.2	
1	8	2	10	0	67	25	33	0	7	0	1294	217	441	25	32	65	1	14	20	374	253	604	13	46.4	1	9	16	1	52	7	58	15	18	14	752	57	463	233	62	5	56	8	21	17	1052	35	454	86	86.7	
Simultaneous MTS																																																		
1	8	3	10	5	67	16	36	4	6	230	1478	141	502	25	35	60	2	17	17	393	284	825	40	43.1	1	9	20	1	35	12	44	6	9	10	452	93	377	93	32	20	42	3	10	10	497	168	332	22	78.9	
1	8	6	10	51	1	28	38	0	0	606	12	341	522	32	27	17	42	0	0	393	278	180	550	54.2	1	9	21	1	55	7	47	19	15	11	776	56	427	305	59	9	57	3	16	14	975	105	464	30	85.2	
1	8	6	10	54	14	42	29	11	11	717	134	432	352	22	41	27	48	6	5	293	365	245	749	52.3	1	9	22	1	56	3	63	16	17	16	726	27	499	195	58	11	67	3	14	10	869	78	542	37	88.1	
1	8	7	10	57	17	53	20	14	11	677	171	541	201	24	51	12	68	4	2	314	475	124	721	50	1	9	23	1	39	6	23	10	8	8	492	49	214	139	27	5	44	7	9	9	368	41	324	81	83	
1	8	8	10	48	29	50	16	10	11	668	292	494	179	28	39	14	60	5	8	377	370	125	874	49.3	1	9	26	1	45	9	53	7	19	18	605	81	433	145	45	6	58	8	14	13	789	60	508	122	87	
1	8	9	10	40	20	68	14	16	16	548	156	570	156	22	41	27	52	6	6	266	344	232	675	55.3	1	9	27	1	29	1	36	8	10	7	374	7	307	129	31	3	34	6	11	9	455	24	302	107	87.8	
1	8	10	10	56	24	44	16	13	18	933	241	419	203	30	42	20	47	5	9	348	421	170	856	53.8	1	9	28	1	58	0	43	0	12	17	732	0	308	0	27	30	7	38	2	9	362	283	135	654	66.5	
1	8	13	10	45	20	55	29	7	15	530	182	499	312	44	37	7	61	0	6	444	361	56	619	50.7	1	9	29	1	44	3	54	5	15	16	577	23	431	73	47	10	44	5	14	16	713	75	331	64	89.2	
1	8	14	10	63	14	54	12	12	17	674	124	421	144	37	31	4	70	1	6	354	251	36	668	55.4	1	9	30	1	33	1	32	5	11	8	386	10	256	68	25	4	317	47	253	126	86					
1	8	15	10	70	9	61	4	14	19	844	68	470	50	29	48	1	63	0	5	314	403	12	583	56.7	1	9	2	2	38	5	38	8	7	6	471	48	308	93	40	4	37	7	13	12	827	27	325	75	86.4	
1	8	16	10	79	5	56	5	13	22	1018	67	466	65	40	28	2	77	0	10	440	268	18	759	60.6	1	9	3	2	26	6	32	8	8	8	5	305	35	266	66	33	5	28	6	8	7	373	33	206	78	83.2
1	8	17	10	59	4	66	6	13	23	787	42	597	94	53	12	0	69	0	11	566	124	0	664	66.2	1	9	4	2	34	6	38	6	12	11	419	67	341	82	39	3	42	1	10	9	516	30	353	13	90.5	
1	8	20	10	80	1	56	8	8	16	1065	15	560	119	36	42	5	64	1	9	452	383	49	662	60.6	1	9	5	2	44	6	32	8	4	6	528	39	259	97	31	20	35	6	10	12	476	154	243	76	78	
1	8	21	10	76	1	66	6	11	14	1004	9	579	89	33	48	2	69	0	3	337	354	14	713	59.1	1	9	9	2	46	15	53	3	15	20	618	154	437	39	49	16	45	6	9	10	820	143	351	77	82.8	
1	8	22	10	67	3	55	0	13	14	956	37	508	0	30	33	4	57	2	6	316	245	37	579	62.7	1	9	10	2	48	13	37	6	17	10	605	108	309	75	36	12	53	4	16	9	531	111	421	49	83.3	
1	8	23	10	48	9	74	2	13	17	726	102	583	22	26	26	9	70	3	5	315	191	75	805	59.5	1	9	11	2	50	9	48	21	19	13	711	75	396	236	50	14	58	5	18	12	826	106	456	36	80.8	
1	8	24	10	63	6	76	0	11	19	1183	49	609	0	30	33	8	74	0	6	302	258	76	898	61	1	9	12	2	51	5	50	11	17	14	636	44	394	149	45	13	55	4	13	9	737	98	397	39	85.9	
1	8	28	10	58	3	74	8	14	21	943	33	669	143	42	36	18	45	5	12	524	309	161	574	67.6	1	9	13	2	59	5	42	13	17	13	851	35	330	247	56	12	50	1	13	10	940	123	356	11	87	
1	8	30	10	52	8	62	16	15	16	881	95	625	291	48	19	18	50	6	8	505	183	148	602	65.9	1	9	16	2	51	11	54	25	15	10	658	96	458	277	58	10	71	4	18	13	893	90	543	59	82.4	
1	8	31	10	60	1	51	6	11	14	910	8	424	97	35	32	23	29	7	9	361	245	175	294	71.3	1	9	17	2	67	8	51	7	16	18	942	67	442	105	54	7	64	7	14	16	937	57	467	112	89.1	
1	8	3	11	49	12	58	15	14	9	710	129	440	259	14	36	45	39	9	4	172	250	313	375	61.9	1	9	18	2	53	2	61	23	16	15	648	23	551	284	68	2	65	5	10	10	1027	16	512	64	88.5	
1	8	4	11	72	6	34	28	19	5	1061	51	300	433	12	44	46	38	14	2	144	310	319	446	58.6	1	9	19	2	60	5	56	25	12	10	795	40	432	401	62	7	72	7	18	17	960	71	539	132	85	
1	8																																																	

Matching to Sample, Blue versus Yellow, Initial MTS training and Simultaneous MTS training at Level 1

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Elroy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Del=Delay, L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative FR3, %=Percent correct.

Pos	Year	Day	Month	Blue												Ch	Pos	Year	Day	Month	Yellow												Ch																		
				Lcor	Linc	Rcor	Rinc	LRfts	RRfts	LatLcor	LatLinc	LatRcor	LatRinc	Lcor	Linc						Rcor	Rinc	LRfts	RRfts	LatLcor	LatLinc	LatRcor	LatRinc																							
2	8	19	11	8	2	10	2	3	2	89	24	104	16	4	2	13	4	3	0	36	16	150	32	77.8	2	8	6	11	25	26	44	4	9	12	259	276	493	37	28	25	14	31	3	7	289	273	148	276	56.3		
2	8	20	11	9	6	21	2	1	3	67	50	185	15	9	9	17	4	3	3	77	71	166	22	72.7	2	8	7	11	29	39	51	5	6	13	246	385	522	48	41	23	18	41	4	9	424	215	238	365	56.3		
2	8	24	11	8	2	4	1	1	0	67	18	40	9	2	5	6	2	2	1	22	43	60	14	66.7	2	8	10	11	23	42	58	11	3	18	206	294	586	111	40	27	23	35	8	23	366	265	214	321	57.6		
2	8	24	11	0	2	0	0	0	0	0	17	0	0	0	0	1	0	0	0	0	11	0	33.3	2	8	11	11	21	33	55	6	6	12	209	476	650	53	50	18	30	27	9	16	522	196	394	285	62.7			
2	8	20	11	0	9	6	21	2	1	3	67	50	185	15	9	9	17	4	3	3	77	71	166	22	72.7	2	8	12	11	33	31	52	11	13	14	329	299	598	107	44	20	33	30	11	14	406	209	402	289	63.8	
2	8	24	11	0	8	2	4	1	1	0	67	18	40	9	2	5	6	2	2	1	22	43	60	14	66.7	2	8	13	11	48	24	31	23	12	10	459	250	368	208	39	24	47	18	12	8	389	251	531	161	65	
2	8	24	11	0	0	2	0	0	0	0	17	0	0	0	0	1	0	0	0	0	11	0	33.3	2	8	14	11	48	14	38	25	15	11	456	172	423	238	36	27	51	11	15	10	377	285	590	108	69.2			
2	8	28	11	0	11	4	7	2	6	5	89	30	124	13	5	9	6	4	4	3	44	78	51	34	60.4	2	8	17	11	21	10	22	6	4	8	232	153	232	61	21	7	27	4	4	7	211	61	311	43	77.1	
2	8	1	12	0	29	13	25	9	7	9	296	125	213	93	31	10	32	4	7	12	276	89	305	28	76.5	2	8	18	11	3	2	4	1	0	2	31	17	44	9	2	2	6	0	1	1	20	22	78	0	75	
2	8	2	12	0	8	4	9	2	1	1	70	38	72	13	8	3	6	4	2	1	62	23	63	29	70.5	2	8	18	11	8	4	10	1	0	3	101	39	110	9	8	5	4	5	1	3	71	49	52	43	66.7	
2	8	2	12	0	45	16	54	10	12	19	440	163	550	83	55	13	44	14	9	18	478	129	546	129	79.9	2	8	21	10	51	15	29	30	8	7	431	124	267	260	22	41	29	33	9	7	193	357	233	287	52.4	
2	8	3	12	0	39	10	53	7	9	12	398	101	571	70	52	4	41	11	14	17	477	43	485	89	85.3	2	8	22	10	16	10	16	11	6	1	141	90	162	97	8	18	18	10	8	2	69	176	168	95	54.2	
2	8	4	12	0	56	4	55	7	9	15	574	67	645	99	52	13	64	6	15	14	515	135	738	54	87.5	2	8	23	10	48	12	31	34	10	4	447	111	340	305	14	46	43	23	10	3	134	463	285	221	54.2	
2	8	5	12	0	67	4	65	9	19	18	679	49	731	98	57	7	73	8	16	16	562	70	851	71	90.3	2	8	24	10	45	23	34	23	8	13	387	237	332	200	21	36	33	36	4	10	182	312	300	313	53	
2	8	8	12	0	54	12	61	11	17	15	675	161	852	149	63	3	64	7	17	20	759	47	841	91	88.3	2	8	28	10	45	19	43	27	6	7	433	183	419	266	28	38	33	34	5	7	270	348	307	314	55.8	
2	8	9	12	0	67	12	57	5	21	23	832	144	737	61	54	13	61	13	13	15	690	149	803	151	84.8	2	8	30	10	40	24	39	26	8	8	387	230	395	253	28	32	30	38	8	7	265	302	284	410	53.3	
2	8	10	12	0	36	10	50	5	7	8	435	108	602	0	43	9	39	5	14	14	545	118	474	94	87.5	2	8	31	10	29	25	37	23	9	9	272	245	362	186	11	42	31	28	5	8	98	491	313	262	47.8	
2	8	16	12	0	58	4	56	3	17	14	609	40	779	25	50	18	50	1	12	8	571	244	601	14	89.2	2	8	3	11	31	20	37	25	9	12	272	184	370	258	26	31	33	24	5	8	262	298	297	219	55.9	
2	8	17	12	0	47	4	49	12	13	10	469	45	675	94	24	28	50	8	13	11	295	365	579	85	76.6	2	8	4	11	28	29	47	15	5	7	232	281	464	126	36	27	22	34	7	9	315	243	287	183	55.9	
2	8	18	12	0	59	6	35	5	16	14	597	58	438	40	35	12	51	5	10	8	378	142	562	53	86.5	2	8	5	11	24	37	53	13	4	9	193	342	499	114	46	32	14	34	2	7	402	290	413	285	54.2	
2	8	22	12	0	57	3	71	4	17	13	611	35	901	36	55	11	67	1	17	13	647	124	734	9	92.9	2	8	14	10	9	4	13	4	2	3	49	32	123	21	7	8	4	11	2	38	67	42	54	55		
2	9	8	1	0	51	7	50	5	11	15	550	89	607	49	50	11	45	5	6	10	552	122	505	55	87.5	2	8	15	10	14	14	9	13	9	2	3	85	81	140	52	9	10	12	12	3	60	80	115	78	54.5	
2	9	13	1	0	48	17	49	10	15	18	489	172	599	93	42	10	60	13	16	17	416	131	695	119	79.9	2	8	15	10	6	6	3	9	13	2	3	30	39	80	76	15	6	10	0	10	8	33	58	5	54	48.4
2	9	14	1	0	51	16	48	13	10	16	577	174	609	125	56	18	40	12	11	11	665	264	482	145	76.8	2	8	16	10	6	6	2	8	5	2	1	31	17	79	29	4	5	4	7	1	2	23	41	42	37	53.7
2	9	15	1	0	50	17	55	13	16	16	581	193	672	141	42	19	54	19	11	11	470	232	586	186	74.7	2	8	17	10	16	16	3	11	8	10	3	86	25	121	45	15	7	2	15	2	8	90	72	26	57.1	
2	9	16	1	0	62	17	50	7	11	10	840	189	592	68	57	14	61	6	18	19	705	513	668	67	83.9	2	8	20	10	4	4	2	7	3	0	3	21	23	75	27	4	2	3	8	2	1	19	16	23	45	54.5
2	9	19	1	0	51	7	61	7	17	16	604	81	861	72	58	20	47	3	17	16	670	285	573	26	85.4	2	8	21	10	40	40	5	16	25	21	6	210	40	164	154	32	12	2	40	2	17	167	113	18	206	52.2
2	9	20	1	0	26	2	33	5	8	8	284	24	405	59	27	8	26	6	8	7	266	99	308	54	84.2	2	8	22	10	31	31	1	2	23	18	0	157	8	19	129	23	2	0	32	0	14	128	17	0	183	49.1
2	9	21	1	0	66	2	49	15	17	14	741	32	720	201	31	22	59	20	12	8	368	306	779	245	77.7	2	8	23	10	47	47	4	27	16	5	11	290	36	314	105	36	7	2	46	1	6	214	76	17	261	60.5
2	9	22	1	0	55	1	60	8	16	16	702	12	788	101	36	19	42	27	15	16	458	224	482	292	77.8	2	8	24	10	16	16	7	14	10	3	4	81	65	132	55	11	8	4	25	1	3	56	71	34	139	47.4
2	9	23	1	0	58	2	61	8	14	17	743	29	921	106	42	19	43	26	9	12	601	241	538	363	78.8	2	8	28	10	35	35	12	24	30	7	14	194	132	245	182	35	15	7	43	2	10	192	141	58	245	50.2
2	9	27	1	0	65	6	55	5	15	8	842	70	801	204	37	33	44	18	12	7	562	513	518	282	76.4	2	8	30	10	7	7	3	0	6	1	0	38	24	0	35	7	4	0	5	0	0	40	34	0	24	43.8
2	9	28	1	0	67	6	52	4	14	17	732	71	694	39	44	20	41	23	4	7	512	253	474	266	79.4	2	8	31	10																						

Matching to Sample, Blue versus Yellow, Initial MTS training and Simultaneous MTS training at Level 1

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Elroy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Del=Delay, L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative FR3, %=Percent correct.

Pos	Year	Day	Month	Blue										Yellow										Ch																													
				Lcor	Linc	Rcor	Rinc	LRfts	RRfts	LatLcor	LatLinc	LatRcor	LatRinc	Lcor	Linc	Rcor	Rinc	LRfts	RRfts	LatLcor	LatLinc	LatRcor	LatRinc																														
3	8	11	12	2	0	3	1	1	0	338	0	422	31	1	0	2	1	0	152	0	536	59	80	12	3	9	28	3	3	23	15	29	11	7	10	382	345	611	192	29	14	20	16	6	9	472	273	391	266	64.3	0		
3	8	16	12	37	1	35	0	9	8	558	22	922	0	35	0	39	0	9	8	690	0	1020	0	99.3	5	3	9	30	3	3	35	17	32	13	10	7	580	425	692	204	31	28	22	16	8	5	476	578	531	294	61.9	1	
3	8	17	12	33	0	39	0	13	10	427	0	941	0	31	0	41	0	13	11	424	0	1082	0	100	1	3	9	31	3	3	25	17	31	20	6	10	416	333	635	290	40	13	23	19	6	9	593	268	432	298	63.3	0	
3	8	19	12	32	10	27	8	8	6	478	231	703	125	29	7	13	27	9	8	434	146	272	392	66	1	3	9	1	4	4	25	13	24	10	8	7	405	329	525	137	22	10	17	22	8	7	307	202	343	336	61.5	0	
3	8	22	12	29	22	33	7	9	7	507	495	952	120	32	10	16	34	8	4	516	220	319	575	60.1	0	3	9	2	4	4	25	21	30	20	3	4	417	464	635	274	28	15	32	18	11	11	401	288	637	292	60.8	0	
3	9	6	1	1	1	1	5	2	0	2	16	15	101	27	1	2	3	3	0	15	39	53	74	55.6	1	3	9	3	4	4	26	22	37	16	8	9	366	433	728	227	36	15	16	34	5	6	470	278	318	460	56.9	3	
3	9	8	1	1	26	7	24	12	7	8	446	152	696	249	10	20	11	29	2	2	149	465	219	437	51.1	2	3	9	4	4	4	21	17	26	24	8	6	481	340	524	329	28	19	23	28	5	4	391	356	454	426	55.1	1
3	9	12	1	1	29	4	22	11	8	6	437	98	679	202	9	23	6	29	2	1	137	544	137	476	49.6	1	3	9	5	4	4	38	10	26	19	8	10	590	203	510	268	31	14	21	27	6	8	425	312	408	378	62.4	1
3	9	13	1	1	40	8	34	11	10	11	590	225	937	157	29	22	7	35	5	7	427	562	183	545	59.1	0	3	9	6	4	38	34	18	37	13	8	10	496	349	678	178	29	20	23	31	5	6	395	400	423	474	60	1
3	9	14	1	1	34	12	28	21	7	12	557	273	657	345	29	19	13	34	5	8	453	431	307	539	54.7	0	3	9	7	4	34	29	19	29	16	5	8	426	334	507	233	31	9	23	30	9	11	461	156	404	432	60.2	0
3	9	15	1	1	34	7	47	9	7	15	545	179	1206	166	22	22	8	45	1	8	365	548	170	716	57.2	0	3	9	8	4	29	27	12	47	11	7	8	446	217	972	165	35	19	25	19	10	9	511	360	453	291	69.7	2
3	9	16	1	1	46	12	31	10	10	4	728	293	865	151	19	23	18	38	11	5	315	559	406	627	57.9	0	3	9	14	4	27	36	16	37	8	10	10	652	283	741	104	29	13	26	33	6	7	413	236	458	499	65.2	0
3	9	19	1	1	45	6	30	10	8	11	677	159	741	147	20	31	16	25	6	8	303	658	333	407	60.7	1	3	9	15	4	39	33	19	30	9	11	10	533	354	612	145	31	6	27	27	10	8	487	111	465	407	65.5	1
3	9	20	1	1	28	9	19	20	7	7	409	186	413	285	21	17	13	25	7	9	293	345	254	366	53.3	1	3	9	16	4	33	38	14	38	13	7	6	606	272	787	245	31	12	35	25	9	9	467	254	655	381	69.9	0
3	9	21	1	1	40	9	35	16	6	12	606	249	786	269	37	23	11	31	3	7	559	498	238	476	60.3	1	3	9	17	4	38	35	20	19	16	10	9	519	433	366	252	40	8	21	19	9	7	550	176	395	250	64.6	0
3	9	22	1	1	40	15	29	17	6	8	600	371	655	252	37	22	11	39	6	6	565	527	270	440	58.9	1	3	9	18	4	35	40	10	30	20	9	10	621	202	596	311	31	12	24	33	4	7	475	239	483	499	62.5	0
3	9	23	1	1	42	5	26	18	4	7	615	124	569	246	27	19	4	41	3	7	381	415	76	607	54.4	3	3	9	20	4	40	41	15	24	19	10	8	551	361	482	314	39	11	23	25	8	7	552	203	421	353	64.5	0
3	9	26	1	1	39	17	25	12	5	10	589	344	522	192	27	18	15	33	4	10	395	343	324	496	57	0	3	9	21	4	41	33	10	21	25	10	7	493	201	423	373	25	16	33	15	9	7	493	200	585	240	62.9	0
3	9	27	1	1	37	15	32	12	10	6	588	294	693	215	29	22	15	29	9	5	480	474	313	499	52.4	0	3	9	22	4	33	33	12	34	14	10	14	510	234	646	195	26	21	26	19	4	8	365	359	463	295	64.3	0
3	9	28	1	1	40	12	29	14	10	10	688	245	601	242	28	16	21	29	7	8	405	312	444	503	62.4	3	3	9	23	4	33	31	19	35	19	8	10	529	368	635	301	34	15	40	15	3	6	559	269	434	241	67.3	1
3	9	29	1	1	35	14	41	14	8	14	505	254	796	210	34	19	16	36	3	8	481	359	295	570	60.3	1	3	9	24	4	31	34	17	28	14	9	9	546	339	518	210	36	12	28	18	8	6	523	203	485	287	67.4	0
3	9	30	1	1	38	10	37	15	9	9	625	197	727	223	26	30	16	29	8	10	403	596	307	507	58	0	3	9	25	4	34	29	8	25	21	7	8	427	142	445	313	26	11	19	27	7	7	378	197	337	427	59.6	0
3	9	2	2	2	33	26	30	16	6	6	530	535	635	242	21	28	20	38	7	8	295	529	373	603	49.1	0	3	9	27	4	29	30	17	34	9	13	11	442	328	626	126	22	19	22	27	6	4	345	358	385	422	60	1
3	9	3	2	2	27	22	34	24	5	9	398	442	712	355	28	21	21	35	5	8	413	415	423	601	51.9	0	3	9	28	4	30	25	16	49	10	6	12	406	321	883	141	26	24	19	29	3	8	431	463	353	473	60	1
3	9	4	2	2	33	19	29	23	7	9	479	415	620	319	34	21	22	26	6	8	483	454	494	393	57	1	3	9	29	4	25	37	7	43	10	7	11	582	146	906	152	29	22	22	26	7	8	433	439	448	421	66.8	0
3	9	5	2	2	25	21	35	10	8	11	398	432	769	150	40	13	15	23	6	9	558	237	328	373	63.2	2	3	9	30	4	37	41	12	36	3	15	10	622	216	676	55	25	26	22	19	7	1	366	534	378	288	67.4	1
3	9	9	2	2	28	13	27	19	11	10	450	238	537	272	29	10	15	32	7	7	406	170	279	443	57.2	0	MTS Training																										
3	9	10	2	2	32	11	29	19	5	8	463	217	601	257	34	8	13	36	6	7	451	156	263	529	59.3	4	4	8	18	9	1	41	5	55	5	20	26	493	55	769	71	52	6	41	6	24	30	705	44	485	159	89.6	
3	9	11	2	2	36	9	36	13	7	10	547	202	807	188	39	8	13	33	7	11	526	188	279	504	65.8	1	4	8	22	9	2	2	14	10	7	1	4	33	152	94	59	6	13	11	2	4	6	51	117	182	22	44.6	
3	9	12	2	2	28	12	27	18	3	9	357	247	721	239	39	8	10	29	3	9	506	156	193	395	60.8	10	4	8	23	9	2	3	19	47	9	24	20	362	175	452	79	13	49	16	37	10	7	113	639	148	341	50.2	
3	9	13	2	2	15	10	24	1	5	8	264	246	541	10	16	13	12	8	5	7	247	352	330	133	67.7	4	4	8	24	9	2	4	27	50	6	20	20	357	270	449	51	13	62	19	31	11	119	596	190	262	49.6		
3	9	16	2	2	7	11	25	1	1	5	134	441	618	29	10	17																																					

Matching to Sample, Blue versus Yellow, Initial MTS training and Simultaneous MTS training at Level 1

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Isham, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Elroy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Del=Delay, L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative FR3, %=Percent correct.

Pos	Year	Day	Month	Blue												Ch	Pos	Year	Day	Month	Yellow												Ch																		
				Lor	Linc	Rcor	Rinc	LRfts	RRfts	LatLor	LatLinc	LatRcor	LatRinc	Lor	Linc						Rcor	Rinc	LRfts	RRfts	LatLor	LatLinc	LatRcor	LatRinc																							
4	8	11	11	5	36	19	47	14	7	14	335	151	322	102	33	30	24	28	8	14	242	188	160	227	60.6	5	8	10	10	5	23	21	21	15	5	8	296	394	318	194	35	8	5	33	3	7	348	74	65	313	52.8
4	8	12	11	5	36	29	43	19	11	14	289	220	287	145	38	29	24	35	5	7	288	201	154	268	55.7	5	8	13	10	5	25	35	42	19	6	15	270	453	556	197	40	13	10	57	2	10	397	205	157	594	48.5
4	8	13	11	5	39	39	37	23	9	7	310	292	245	180	33	38	23	44	6	4	217	268	141	321	47.8	5	8	14	10	5	21	49	46	15	8	13	212	578	563	170	60	5	8	58	2	8	553	72	107	534	51.5
4	8	14	11	5	36	31	38	21	10	11	286	253	227	155	35	27	29	35	8	8	253	184	180	263	54.8	5	8	15	10	5	20	43	55	13	5	14	216	499	589	126	53	4	6	69	3	11	496	72	90	671	51
4	8	17	11	5	19	34	39	21	2	6	134	261	283	141	22	36	24	32	7	7	135	282	179	214	45.8	5	8	16	10	5	42	20	46	15	11	17	837	283	501	145	53	11	7	51	1	7	467	117	93	566	60.4
4	8	18	11	5	23	23	24	20	8	5	248	191	158	138	23	19	24	21	6	6	180	139	164	146	53.1	5	8	17	10	5	42	26	46	19	2	12	781	310	524	188	59	7	12	55	2	11	492	289	532	59.8	
4	8	19	11	5	12	1	7	5	1	0	127	5	66	94	4	6	7	9	1	0	25	51	55	69	58.8	5	8	20	10	5	38	25	46	20	12	12	390	278	435	197	37	21	26	38	7	6	360	249	298	362	56.8
4	8	20	11	5	28	10	48	11	6	10	280	89	318	85	20	30	22	26	7	7	117	217	146	188	60.5	5	8	21	10	5	28	31	42	33	12	10	248	345	459	275	33	32	39	31	7	7	292	362	410	284	52.9
4	8	24	11	5	29	7	27	4	6	5	377	65	185	22	10	22	17	17	6	4	72	142	119	105	62.4	5	8	22	10	5	36	30	37	34	9	10	312	300	411	291	24	42	37	34	5	7	202	434	333	301	48.9
4	8	25	11	5	37	3	54	13	10	9	391	34	484	184	19	38	29	21	5	7	145	327	245	167	65	5	8	23	10	5	40	16	36	39	11	9	336	162	361	350	24	42	38	27	9	5	220	455	344	242	52.7
4	8	26	11	5	16	3	14	7	3	2	198	23	109	82	11	12	12	7	3	4	90	90	77	58	64.6	5	8	24	10	5	54	18	41	23	10	9	519	154	363	197	26	36	36	38	10	9	200	334	387	346	57.7
4	8	26	11	5	16	8	43	3	9	5	161	70	644	16	4	36	11	17	5	1	32	440	66	136	53.6	5	8	28	10	5	45	20	36	36	5	10	434	182	338	289	37	31	27	39	8	14	314	304	299	345	53.5
4	8	27	11	5	35	6	31	12	8	6	393	70	266	129	17	26	16	23	6	5	141	229	131	176	59.6	5	8	30	10	5	67	13	33	37	12	11	513	127	332	302	48	26	21	45	6	5	303	264	274	380	56.8
4	8	28	11	5	23	11	37	25	7	12	224	93	313	195	26	24	22	23	3	9	196	194	152	198	56.5	5	8	31	10	5	48	24	34	38	14	7	399	243	336	291	41	32	25	46	8	3	308	323	299	362	51.4
4	8	1	12	5	64	6	53	2	15	12	725	63	563	15	9	67	27	24	3	5	124	1152	211	196	60.7	5	8	3	11	5	49	16	26	40	12	7	469	165	262	301	37	24	30	49	11	7	290	220	329	387	54.1
4	8	2	12	5	45	7	48	7	9	13	479	76	366	85	26	28	31	22	5	11	246	230	245	167	70.1	5	8	4	11	5	47	18	30	39	12	13	372	183	341	300	38	16	29	52	8	10	295	153	313	412	53.5
4	8	3	12	5	42	9	41	8	11	10	493	79	290	98	16	22	41	24	8	8	152	161	318	201	69	5	8	5	11	5	53	20	27	39	12	8	401	179	287	301	37	38	26	40	11	6	288	374	285	312	51.1
4	8	4	12	5	50	11	38	16	13	12	591	112	262	146	23	30	39	23	8	8	222	244	293	183	65.2	5	8	6	11	5	57	20	25	41	9	7	456	199	294	316	32	46	36	27	12	10	252	461	344	218	52.8
4	8	5	12	5	54	8	59	0	16	11	584	76	551	0	9	47	40	25	10	5	189	457	316	202	66.9	5	8	7	11	5	47	19	48	19	16	13	437	171	649	142	27	35	32	57	11	6	223	349	333	328	58.3
4	8	8	12	5	57	9	51	11	15	11	552	89	440	75	24	42	42	20	13	8	200	376	329	125	68	5	8	10	11	5	47	14	56	24	16	18	424	126	649	193	29	45	36	30	7	8	238	440	320	289	59.0
4	8	9	12	5	49	6	44	21	9	12	543	60	385	200	26	32	42	20	9	11	254	276	367	174	67.1	5	8	11	11	5	55	22	36	29	10	4	492	180	379	218	29	35	30	40	12	5	220	340	329	330	55.6
4	8	10	12	5	40	14	54	4	14	20	409	135	455	35	33	30	28	22	7	12	304	249	233	163	68.9	5	8	12	11	5	38	37	34	33	11	5	346	332	294	235	22	38	34	12	6	188	353	376	301	50.2	
4	8	11	12	5	51	1	56	9	17	15	647	12	557	93	22	31	47	17	11	9	207	270	409	159	75.2	5	8	13	11	5	34	39	35	35	7	13	316	316	326	257	30	50	35	4	9	243	449	290	269	46.4	
4	8	12	12	5	53	4	58	5	11	12	578	51	457	37	35	21	34	29	8	9	334	173	242	287	75.3	5	8	14	11	5	31	50	44	16	10	12	318	443	404	122	27	45	36	32	5	6	210	377	275	278	49.1
4	8	16	12	5	51	11	56	7	12	16	487	111	489	64	36	25	29	34	8	11	314	216	218	240	69.1	5	8	17	11	5	40	28	37	34	9	11	379	298	375	286	42	26	19	51	9	11	350	242	163	425	49.8
4	8	17	12	5	53	7	38	16	12	11	539	85	392	204	30	20	47	15	12	11	297	187	448	112	74.3	5	8	18	11	5	26	41	48	25	7	11	410	337	400	215	36	29	31	45	9	12	283	241	300	396	50.2
4	8	18	12	5	30	12	45	7	11	9	342	148	529	100	47	7	34	7	14	13	521	62	281	50	82.5	5	8	19	11	5	22	22	37	19	4	9	257	223	359	158	30	21	19	29	5	10	253	186	176	247	54.3
4	8	19	12	5	34	11	43	5	9	14	428	153	447	52	39	7	37	10	10	14	462	65	302	79	82.3	5	8	20	11	5	40	28	55	22	10	10	471	238	555	183	38	25	39	40	8	11	286	189	331	306	59.9
4	8	22	12	5	33	13	45	11	11	12	378	120	416	130	45	6	45	7	15	18	446	57	389	52	82.3	5	8	24	11	5	46	19	52	14	11	14	588	154	647	142	27	33	41	30	9	11	233	287	347	288	63.4
4	9	6	1	5	24	12	36	15	7	7	327	146	350	164	23	16	42	6	7	8	262	180	413	58	71.8	5	8	25	11	5	52	30	53	4	11	11	639	241	492	34	26	39	38	35	11	9	242	302	292	323	61
4	9	8	1	5	40	13	39	16	17	9	475	116	335	169	40	12	52	5	13	7	403	96	418	36	78.8	5	8	26	11	5	38	35	51	17	13	10	407	303	597	162	29	36	52	22	12	11	298	289	427	217	60.7
4	9	12	1	5	36	20	36	12	7	9	422	187	335	108	48																																				

Matching to Sample, Blue versus Yellow, Initial MTS training and Simultaneous MTS training at Level 1

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Elroy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Del=Delay, L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative FR3, %=Percent correct.

Pos	Year	Day	Month	Blue										Yellow										Ch																													
				Lcor	Linc	Rcor	Rinc	LRfts	RRfts	LatLcor	LatLinc	LatRcor	LatRinc	Lcor	Linc	Rcor	Rinc	LRfts	RRfts	LatLcor	LatLinc	LatRcor	LatRinc																														
7	8	19	12	0	20	0	26	2	5	9	890	0	1170	60	8	14	1	22	0	2	345	572	29	949	59.6	2	7	9	2	4	0	22	6	12	18	7	3	645	180	582	453	11	17	21	10	7	3	376	454	406	231	56.4	2
7	8	22	12	0	29	5	29	0	5	7	1083	321	1182	0	7	21	4	30	4	5	184	774	234	1067	55.2	4	7	9	3	4	0	28	6	5	19	6	5	800	118	255	496	8	19	19	12	4	4	261	461	312	287	51.7	1
7	9	6	1	0	22	2	21	5	6	8	667	105	974	195	11	11	2	26	0	4	345	506	56	683	56	2	7	9	4	4	0	35	3	8	24	8	1	934	51	356	581	15	23	17	13	8	2	437	592	271	313	54.3	0
7	9	8	1	0	36	0	22	10	4	2	1252	0	1268	383	17	17	8	29	3	3	614	674	369	895	59.7	4	7	9	5	4	0	18	1	13	17	2	5	486	33	627	468	6	20	10	10	1	4	187	574	304	282	49.5	4
7	9	12	1	0	22	5	26	6	6	9	844	233	1018	286	11	17	10	23	2	5	380	592	340	767	57.5	7	7	9	7	4	0	24	5	19	18	6	9	539	190	979	430	15	20	17	15	4	6	431	542	318	340	56.4	2
7	9	13	1	0	33	1	16	14	5	4	1199	54	711	575	15	17	10	23	5	6	572	503	367	614	59.1	2	7	9	8	4	0	31	5	16	15	6	7	749	77	592	396	15	26	14	13	5	5	476	653	208	297	56.3	2
7	9	14	1	0	33	5	17	11	6	4	1289	179	529	416	11	20	13	22	5	4	410	512	354	737	56.1	1	7	9	14	4	0	22	13	26	17	5	6	567	241	825	441	15	29	15	18	5	6	419	910	261	438	50.3	5
7	9	15	1	0	28	5	12	17	6	6	1018	198	420	688	13	17	16	13	2	2	548	458	385	402	56.3	2	7	9	15	4	0	27	19	22	15	6	4	659	260	470	307	18	24	20	20	7	3	442	558	300	462	52.7	2
7	9	16	1	0	24	5	17	7	7	4	784	170	550	206	9	17	16	5	4	277	474	241	452	57.1	1	7	9	16	4	0	18	12	21	14	9	8	412	349	552	264	14	14	21	17	6	6	303	287	303	372	56.5	0	
7	9	19	1	0	17	5	15	12	6	4	577	163	548	405	5	19	12	12	2	0	183	612	296	435	50.5	1	7	9	17	4	0	32	7	13	23	4	2	721	182	418	507	9	27	25	16	2	1	212	697	487	391	52	3
7	9	20	1	0	15	5	13	9	1	3	661	179	636	337	8	19	9	6	3	4	341	690	183	227	53.6	2	7	9	17	4	0	31	9	18	15	5	2	898	202	587	344	13	21	22	16	8	3	432	570	375	371	57.9	1
7	9	21	1	0	26	4	26	10	5	7	976	132	776	399	11	16	17	20	4	4	435	456	364	644	61.5	1	7	9	18	4	0	32	16	5	18	5	1	863	358	176	424	13	26	23	10	8	2	388	724	562	225	51	4
7	9	22	1	0	32	2	22	8	3	8	1087	39	885	259	18	19	10	19	1	6	642	450	204	519	63.1	3	7	9	20	4	0	26	9	15	26	9	3	583	275	575	608	14	24	26	13	9	2	355	715	474	250	52.9	4
7	9	23	1	0	21	6	21	9	4	2	686	187	657	343	8	21	15	14	2	1	348	497	289	498	56.5	2	7	9	21	4	0	12	12	9	31	3	3	246	401	366	699	16	23	24	2	5	4	371	606	549	33	47.3	6
7	9	26	1	0	18	7	25	9	6	5	511	295	757	264	8	16	14	22	3	2	298	372	295	640	54.6	0	7	9	22	4	0	16	25	7	20	4	1	348	1097	258	450	16	19	30	2	4	4	385	687	799	37	51.1	10
7	9	27	1	0	18	6	25	7	4	8	562	149	745	251	13	14	14	15	6	9	426	384	345	464	62.5	1	MTS Training																										
7	9	28	1	0	29	4	25	13	5	7	1059	106	807	512	21	23	6	21	2	5	712	719	143	622	57	1	7	9	18	9	0	15	0	16	0	15	16	1174	0	620	0	14	0	17	0	17	14	1161	0	1473	0	100	0
7	9	29	1	0	25	8	31	10	11	9	629	154	837	315	12	17	15	30	2	2	332	365	292	706	56	2	8	8	19	9	0	9	8	11	2	9	11	144	114	434	33	1	10	15	1	11	324	482	54	61	61	0	
7	9	30	1	0	16	7	11	10	3	1	656	216	388	400	4	14	14	14	3	1	132	339	285	430	50	1	8	8	22	9	0	6	4	9	1	6	9	127	14	479	46	5	11	0	11	5	200	70	159	0	75.6	0	
7	9	2	3	0	26	8	20	11	7	5	762	138	448	417	14	21	11	18	5	4	560	358	216	447	55	1	8	8	23	9	0	22	5	20	8	22	20	389	19	925	233	24	9	19	3	19	24	498	67	804	108	77.3	0
7	9	3	3	0	20	3	24	12	4	9	501	82	679	357	19	14	12	16	2	4	605	342	226	421	62.5	0	8	8	24	9	0	28	19	36	5	16	18	414	66	828	75	29	15	37	6	17	20	520	77	836	230	74.3	0
7	9	4	3	0	27	14	19	7	10	6	766	227	415	239	15	23	13	16	4	5	545	389	216	413	55.2	1	8	8	25	9	0	41	15	36	2	24	22	830	41	535	5	35	21	36	3	18	14	636	128	716	41	78.3	0
7	9	5	3	0	23	13	19	11	10	6	586	213	517	304	19	18	14	14	1	1	550	292	206	355	57.3	1	8	8	26	9	0	36	8	36	0	20	15	820	50	689	0	20	18	39	3	18	14	405	93	682	37	81.9	0
7	9	6	3	0	18	14	25	14	5	4	567	240	489	440	17	15	16	22	5	6	538	293	282	641	53.9	0	8	8	29	9	0	32	12	50	1	14	17	599	24	726	2	36	14	45	0	17	19	618	64	622	0	85.8	0
7	9	7	3	0	26	13	16	12	6	5	681	208	360	367	12	22	13	19	3	2	405	412	217	499	50.4	0	8	8	30	9	0	38	4	45	0	27	22	766	117	754	0	38	5	44	1	26	20	794	20	691	3	94.3	0
7	9	9	3	0	19	9	22	12	6	5	555	185	579	379	12	13	11	27	5	5	383	281	196	753	51.2	0	8	8	1	10	0	28	23	46	16	19	20	588	402	817	289	17	36	26	33	12	13	273	584	341	638	52	0
7	9	2	2	0	10	3	8	2	1	1	343	49	267	83	4	8	2	3	1	134	187	136	62	66.7	0	8	8	2	10	0	27	21	33	21	17	16	371	314	447	337	14	42	15	31	10	8	236	585	258	437	43.6	0	
7	9	3	2	0	29	12	20	10	6	2	1024	375	626	299	11	20	11	17	6	4	402	495	434	434	57.9	0	8	8	3	10	0	34	9	28	15	17	15	532	123	406	276	11	32	18	24	10	8	166	556	263	349	53.2	0
7	9	4	2	0	25	11	30	7	8	8	893	314	1007	335	12	28	15	18	2	2	503	678	309	571	56.2	3	8	8	6	10	0	42	15	279	286	19	7	14	29	0	0	139	54	203	407	57.6	0						
7	9	5	2	0	21	18	22	12	5	6	956	417	746	577	17	19	17	19	5	5	795	531	323	602	53.1	0	Simultaneous MTS																										
7	9	9	2	0	17	20	21	12	4	6	605	406	494	516	18	24	11	14	3	6	737	664	204	461	48.9	2	8	8	6	10	0	39	14	28	20	10	8	544	241	271	311	13	31	34	22	5	4	180	402	461	352	56.7	0
7	9	10	2	0	26	8	22	13	6	4	772	154	591	507	15	18	22	15	4	4	570	396	388	418	61.2	2	8	8	7	10	0	36	17	35	21	11	6	707	296	631	356	16	35	31	27	9	3	295	473	494	432		

Matching to Sample, Blue versus Yellow, Initial MTS training and Simultaneous MTS training at Level 1

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Pos=possum, Del=Delay, L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative FR3, %=Percent correct.

Pos	Year	Day	Month	Blue										Yellow										Ch	Pos	Year	Day	Month	Blue										Yellow										Ch					
				L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L	R						L	R	L	R	L	R	L	R	L	R																
8	8	26	11	0	15	6	11	6	3	3	172	68	187	91	10	6	17	2	3	138	122	85	122	57.1	0	8	9	14	3	0	33	0	27	13	9	10	888	0	797	353	24	11	26	12	12	12	604	364	881	280	75.3	1		
8	8	27	11	0	12	7	14	5	2	3	113	59	143	54	9	6	17	2	3	90	69	52	171	53.9	0	8	9	16	3	0	36	5	26	19	8	8	1024	111	723	504	31	20	24	10	9	10	783	601	614	251	68.4	2		
8	8	28	11	0	18	15	9	6	5	5	172	182	105	68	22	9	5	11	2	3	211	105	45	97	56.8	0	8	9	17	3	0	23	6	26	7	8	11	727	148	766	172	18	19	18	8	3	5	492	528	469	222	68	2	
8	8	1	12	0	28	5	12	8	3	3	284	55	143	73	13	17	9	14	4	1	118	159	90	120	58.5	0	8	9	18	3	0	31	11	31	13	8	7	835	248	813	343	33	8	30	17	9	8	823	207	711	453	71.8	1	
8	8	2	12	0	12	3	8	6	0	3	108	30	78	57	9	7	7	5	0	4	76	73	74	34	63.2	0	8	9	19	3	0	27	8	31	12	7	8	698	186	850	326	30	14	24	9	9	12	819	419	610	252	72.3	3	
8	8	3	12	0	7	7	3	8	3	2	71	74	29	66	7	7	8	2	1	55	76	85	29	50	0	0	8	9	20	3	0	26	15	29	11	6	7	651	409	836	308	40	5	23	15	11	13	1118	140	543	444	72	0	
8	8	3	12	0	3	0	1	3	1	0	26	0	8	19	0	3	4	0	2	0	0	33	39	0	57.1	0	8	9	23	3	0	11	11	13	3	3	4	309	310	399	94	14	8	11	6	5	4	393	292	351	182	63.6	0	
8	8	4	12	0	26	6	8	18	6	5	212	60	94	173	17	17	14	3	3	169	199	125	120	53	0	0	8	9	24	3	0	35	13	19	23	9	5	986	289	503	651	29	11	39	9	13	10	747	296	973	348	68.5	1	
8	8	5	12	0	6	4	8	11	1	3	44	38	82	91	5	8	7	8	1	2	44	73	69	62	45.6	0	8	9	25	3	0	15	15	23	22	10	9	666	346	538	562	31	9	39	9	7	8	771	211	980	231	69.1	3	
8	8	8	12	0	20	19	32	8	3	11	220	212	362	96	25	16	3	35	0	8	345	190	31	370	50.6	0	8	9	26	3	0	27	16	23	23	8	6	778	362	613	563	40	7	34	9	13	11	912	162	832	236	69.3	3	
8	8	9	12	0	5	7	16	10	3	4	58	79	165	92	12	8	11	5	2	3	117	84	115	46	59.5	0	8	9	28	3	0	26	4	20	8	4	5	674	62	500	247	28	2	25	2	10	11	681	63	526	52	86.1	4	
8	8	10	12	0	16	16	10	10	4	4	271	373	208	169	17	14	10	12	4	3	285	309	212	200	60.5	1	8	9	30	3	0	32	10	35	12	8	12	856	194	752	339	45	5	29	10	9	10	1070	101	614	286	79.2	0	
8	8	11	12	0	8	11	11	4	1	2	133	228	198	68	5	10	9	10	3	3	94	234	166	188	48.5	0	8	9	31	3	0	38	7	37	8	8	10	1054	184	1141	254	23	16	39	11	5	6	607	430	971	321	75.2	2	
8	8	12	12	0	16	15	26	12	3	7	247	289	517	200	26	13	12	18	5	10	474	264	236	305	58	0	8	9	1	4	0	30	3	42	5	13	17	790	87	1164	155	36	13	24	9	5	10	607	335	558	258	81.5	1	
8	8	17	12	0	10	15	25	15	4	8	169	376	596	325	15	6	12	32	1	8	293	143	261	575	47.7	3	8	9	2	4	0	37	9	36	0	12	13	1142	237	1042	0	25	15	31	11	11	10	629	477	783	312	78.7	1	
8	8	18	12	0	10	9	14	12	3	3	193	204	262	187	13	11	9	13	3	4	243	191	219	201	50.5	3	8	9	3	4	0	35	6	38	3	7	9	983	155	1225	82	21	20	26	17	8	5	522	631	648	457	73.2	4	
8	8	19	12	0	26	17	31	20	10	7	472	322	602	347	24	22	23	24	8	5	412	419	426	430	55.6	0	8	9	4	4	0	26	6	27	1	10	6	779	179	721	26	17	12	21	12	8	5	470	373	530	321	74.6	1	
8	8	22	12	0	27	27	39	29	9	9	489	530	716	338	39	28	18	30	6	6	772	491	329	493	54.2	1	8	9	5	4	0	36	4	46	0	8	16	1120	131	1184	0	32	15	19	20	4	11	823	430	540	628	77.3	5	
8	9	6	1	0	21	18	13	21	10	3	848	432	270	444	15	28	16	13	5	1	325	543	323	245	44.8	1	8	9	6	4	0	46	5	42	2	6	8	1297	132	1107	60	25	22	27	21	8	6	629	734	684	651	73.7	3	
8	9	8	1	0	29	21	27	27	9	4	615	478	531	527	11	40	28	24	7	2	198	764	551	407	45.9	1	8	9	7	4	0	41	11	34	2	12	9	1003	250	806	57	24	20	28	17	11	5	624	619	461	461	71.8	0	
8	9	12	1	0	30	17	26	23	4	7	553	327	512	434	23	21	38	14	7	10	435	397	798	259	60.9	0	8	9	8	4	0	28	10	42	3	9	11	691	245	1096	84	27	18	21	19	6	10	680	470	555	888	70.2	1	
8	9	13	1	0	25	15	21	20	6	3	514	302	439	368	15	29	20	15	9	6	281	554	406	286	50.6	0	8	9	14	4	0	26	12	34	14	8	8	656	303	752	360	37	12	17	10	10	9	878	266	556	217	72.1	5	
8	9	15	1	0	29	14	16	21	7	3	644	274	320	502	12	24	29	15	8	4	285	460	572	290	53.8	0	8	9	15	4	0	31	17	25	16	13	9	764	378	542	383	33	8	38	10	11	8	789	202	837	255	71.3	1	
8	9	16	1	0	23	27	21	21	8	7	554	548	449	509	32	11	32	17	8	7	838	219	672	362	58.7	0	8	9	16	4	0	36	11	32	8	9	11	851	237	811	165	33	8	36	9	11	12	771	206	767	240	79.2	0	
8	9	19	1	0	29	17	38	9	5	5	730	329	753	212	29	21	27	17	10	10	761	432	520	358	65.8	0	8	9	17	4	0	42	5	37	15	13	9	1109	109	876	332	37	10	36	11	6	10	875	267	759	448	76.8	1	
8	9	20	1	0	27	17	32	21	4	5	512	333	755	422	37	9	38	11	8	9	855	181	765	216	69.8	0	8	9	18	4	0	48	2	21	15	17	6	1201	42	514	338	28	19	34	4	14	3	9	878	647	102	76.6	0	
8	9	21	1	0	15	21	30	12	5	10	405	442	675	348	39	4	24	11	5	12	1140	81	504	261	69.2	0	8	9	20	4	0	47	1	32	7	11	8	1188	33	877	155	34	5	41	5	12	11	870	112	862	99	89.5	2	
8	9	22	1	0	8	23	19	7	1	3	242	475	425	211	32	1	18	6	6	9	972	23	392	145	67.5	0	8	9	21	4	0	42	1	32	11	10	9	984	25	885	242	24	21	36	5	14	9	5	668	508	825	224	70.7	2
8	9	23	1	0	9	14	7	4	7	5	255	278	185	131	16	1	16	3	8	4	440	30	358	60	68.6	0	8	9	22	4	0	44	1	32	17	12	10	914	24	621	543	28	19	38	8	5	6	668	508	825	224	70.7	2	
8	9	26	1	0	18	21	50	11	5	7	478	431	1097	295	51	3	39	8	7	10	1496	86	786	186	78.6	0	8	9	23	4	0	20	7	23	13	6	5	401	199	752	459	15	16	29	7	6	3	370	387	642	172	67.7	2	
8	9	27	1	0	20	25	32	4	6	10	674	496	766	148	41	5	24	11	5	9	1362	109	508	345	72.2	0	8	9	24	4	0	38	11	30	13	11	9	905	249	769	247	30	14	38	7	9	8	706	354	877	139	75.1	1	

Matching to Sample, Blue versus Yellow, Initial MTS training and Simultaneous MTS training at Level 1

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Elroy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Del=Delay, L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative FR3, %=Percent correct.

Pos	Year	Day	Month	Blue												Yellow												% Ch	Pos	Year	Day	Month	Blue												Yellow												% Ch
				Lcor	Linc	Rcor	Rinc	LRfts	RRfts	LatLcor	LatLinc	LatRcor	LatRinc	Lcor	Linc	Rcor	Rinc	LRfts	RRfts	LatLcor	LatLinc	LatRcor	LatRinc	Lcor	Linc	Rcor	Rinc						LRfts	RRfts	LatLcor	LatLinc	LatRcor	LatRinc																			
8	9	15	6	0	43	5	59	4	11	15	1001	146	1518	92	34	25	34	16	7	10	747	624	868	365	77.3	5	9	8	28	10	0	45	26	34	31	8	9	395	284	305	228	35	27	17	56	4	7	280	247	158	433	48.3					
8	9	16	6	0	39	7	35	7	11	9	899	186	918	206	17	22	40	9	7	4	365	537	980	234	74.4	6	9	8	30	10	0	37	13	25	25	7	11	321	118	217	202	36	18	11	35	3	8	287	172	129	282	54.5					
8	9	17	6	0	16	5	19	5	4	8	349	105	447	83	14	13	15	2	4	5	306	308	369	44	71.9	1	9	8	31	10	0	46	10	47	12	6	8	511	102	406	98	32	26	19	39	6	7	268	223	181	332	62.3					
8	9	18	6	0	27	4	34	4	8	10	571	110	1024	116	18	13	25	13	7	8	407	331	588	281	75.4	4	9	8	3	11	0	8	0	5	5	2	2	70	0	81	40	6	2	0	10	0	2	45	18	0	74	52.8					
8	9	19	6	0	34	6	34	7	9	14	826	172	1035	182	32	12	30	5	6	10	732	307	721	117	81.3	5	9	8	4	11	0	39	15	39	24	7	9	326	142	399	198	30	21	18	46	6	7	267	188	190	348	54.3					
8	9	22	6	0	34	4	40	5	8	8	850	112	1098	130	33	6	33	11	10	9	737	172	905	322	84.3	5	9	8	5	11	0	16	38	58	5	2	7	133	397	556	44	29	26	30	34	5	9	259	251	307	276	56.4					
8	9	23	6	0	39	1	45	3	10	10	957	34	1272	65	33	13	33	8	9	10	692	382	914	243	85.7	4	9	8	6	11	0	26	34	48	3	8	11	272	425	506	27	42	16	41	12	12	14	377	177	540	102	70.7					
8	9	24	6	0	32	3	32	5	12	14	678	65	976	90	30	7	27	7	10	11	613	178	692	313	84.6	3	9	8	7	11	0	10	17	24	2	6	6	153	225	278	19	27	6	19	1	8	7	275	87	288	10	75.5					
8	9	25	6	0	49	6	36	1	11	11	1079	178	1017	18	34	8	42	9	12	11	675	240	1126	199	87	1	9	8	10	11	0	36	24	42	15	12	14	386	263	521	141	48	15	48	7	10	12	406	171	706	69	74					
8	9	26	6	0	25	5	32	3	6	4	608	135	891	64	26	8	28	2	12	10	560	263	687	37	86	0	9	8	11	11	0	45	10	32	15	14	12	500	125	441	164	35	5	62	1	10	10	353	78	1042	15	84.9					
Simultaneous MTS																																																									
8	9	29	6	0	36	16	45	6	13	10	629	199	584	71	39	8	56	1	13	9	565	101	693	11	85		9	8	12	11	0	31	8	43	4	12	13	356	107	632	47	39	9	39	0	8	8	460	157	558	0	87.9					
8	9	30	6	0	33	8	34	11	12	11	596	100	453	144	30	11	44	1	8	8	439	109	434	12	82		9	8	14	11	0	40	8	34	3	9	13	464	110	501	39	40	2	43	0	6	10	501	30	796	0	92.4					
8	9	1	7	0	50	7	34	7	12	11	839	75	450	136	41	11	45	2	14	14	675	130	499	17	86.3		9	8	17	11	0	49	5	44	9	11	12	495	76	579	119	53	4	45	7	10	11	522	61	673	111	88.4					
8	9	2	7	0	46	7	45	3	14	11	698	61	581	45	42	12	48	1	14	10	608	108	486	18	88.7		9	8	18	11	0	23	4	29	4	6	9	268	69	426	39	27	3	28	2	7	7	319	49	434	23	89.2					
8	9	3	7	0	41	7	48	7	10	9	602	63	648	85	38	11	48	8	13	14	586	124	444	132	84.1		9	8	19	11	0	20	0	24	0	8	7	242	0	328	0	19	1	22	2	8	8	237	15	336	21	96.6					
8	9	6	7	0	17	4	10	2	5	2	201	50	125	38	9	6	16	3	6	3	125	78	152	39	77.6		9	8	24	11	0	15	1	25	1	5	8	168	15	351	15	21	2	18	0	3	6	278	24	241	0	95.2					
8	9	7	7	0	49	9	44	9	17	17	728	88	505	118	47	4	56	3	13	13	705	43	486	39	88.7		9	8	26	11	0	24	2	20	1	6	6	275	34	293	13	23	2	22	0	6	9	282	23	335	0	94.7					
8	9	8	7	0	41	2	27	2	12	10	594	27	273	27	31	2	34	4	10	9	446	11	325	53	93		9	8	28	11	0	11	9	9	0	3	1	141	125	115	0	12	0	17	0	4	2	165	0	269	0	84.5					
8	9	9	7	0	44	9	45	9	14	12	596	76	512	90	41	13	42	11	13	10	684	146	386	180	80.4		9	8	28	11	0	1	1	0	2	1	0	14	16	0	37	1	0	1	0	1	15	0	18	18	42.9						
8	9	10	7	0	49	3	38	4	14	13	684	26	423	38	36	13	43	4	14	11	652	128	403	60	87.4		9	8	1	12	0	11	3	20	2	4	2	140	36	224	21	15	2	18	3	5	3	157	26	276	37	86.5					
8	9	13	7	0	52	3	61	5	16	10	771	35	737	74	40	14	61	5	18	14	602	167	519	73	88.8		9	8	2	12	0	24	11	24	1	8	6	296	128	280	14	22	2	31	5	8	4	244	23	467	62	84.2					
8	9	14	7	0	60	6	54	6	17	17	813	57	593	73	40	17	67	1	16	16	603	165	543	17	88		9	8	3	12	0	22	4	27	2	4	7	259	59	318	26	25	8	22	0	1	4	259	102	294	0	87.3					
8	9	15	7	0	37	6	46	12	13	12	572	55	556	165	44	7	48	4	11	12	757	89	438	74	85.8		9	8	4	12	0	59	4	48	8	15	16	630	50	567	89	54	6	50	6	15	16	546	72	717	60	89.8					
8	9	16	7	0	49	8	51	8	16	17	738	91	543	90	48	14	52	3	12	13	738	140	460	46	85.8		9	8	8	12	0	80	0	58	3	17	17	844	0	726	49	64	2	70	5	18	17	694	22	1024	62	96.5					
8	9	21	7	0	32	15	45	4	7	12	466	162	490	66	34	16	33	12	12	14	510	128	299	165	75.4		9	8	10	12	0	69	2	73	5	20	28	691	35	861	58	79	2	60	7	11	19	805	26	866	86	94.6					
8	9	22	7	0	46	7	52	5	14	14	601	81	558	104	45	9	52	6	18	17	703	107	483	93	87.8		9	8	12	12	0	76	3	70	3	15	11	845	40	914	36	66	3	81	2	24	20	721	34	1101	34	96.4					
8	9	24	7	0	40	24	38	3	13	13	506	221	430	45	38	16	45	7	12	10	565	141	427	107	76.3		9	8	16	12	0	78	5	76	4	21	20	948	69	1047	66	80	2	78	3	20	21	831	22	1134	36	95.7					
8	9	27	7	0	41	11	52	5	17	16	533	121	577	60	29	23	36	22	8	7	409	194	321	379	72.1		9	8	17	12	0	65	7	58	0	16	19	825	119	834	0	60	20	48	1	15	19	684	316	685	15	89.2					
8	9	28	7	0	35	17	54	8	8	11	442	182	631	84	48	15	40	12	14	16	662	157	340	152	77.3		9	8	19	12	0	69	2	60	2	12	19	850	32	856	27	66	3	62	1	18	25	774	39	818	12	93					
8	9	29	7	0	33	18	43	7	10	15	500	166	537	88	44	14	39	3	13	16	715	120	348	45	79.1		9	9	6	1	0	37	4	36	0	9	11	588	59	502	0	34	2	36	4	9	11	433	40	528	72	97.5					
8	9	30	7	0	39	12	40	11	12	12	550	117	482	144	34	8	50	12	11	11	622	91	515	199	79.1		9	9	8	1	0	60	6	63	2	18	23	809	94	876	24	61	7	62	0	14	16	736	109	885	0	94.3					
8	9	31	7	0	8	2	8	1																																																	

Matching to Sample, Blue versus Yellow, Initial MTS training and Simultaneous MTS training at Level 1

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Elroy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Del=Delay, L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative FR3, %=Percent correct.

Pos	Year	Day	Month	Blue												Yellow												% Ch	Pos	Year	Day	Month	Blue												Yellow												% Ch
				Lcor	Linc	Rcor	Rinc	LRfts	RRfts	LatL	LatR	LatLcor	LatRcor	LatLinc	LatRinc	Lcor	Linc	Rcor	Rinc	LRfts	RRfts	LatL	LatR	LatLcor	LatRcor	LatLinc	LatRinc						Lcor	Linc	Rcor	Rinc	LRfts	RRfts	LatL	LatR	LatLcor	LatRcor	LatLinc	LatRinc													
10	8	30	10	0	32	40	28	18	4	2	227	464	347	154	29	33	13	41	6	5	211	383	150	281	43.6	0	10	9	13	2	0	27	20	48	10	11	12	754	494	1129	251	39	18	31	19	3	5	1111	385	591	539	68.4					
10	8	31	10	0	39	39	31	16	5	5	261	457	348	115	38	29	23	35	8	8	255	306	263	243	52.4	0	10	9	16	2	0	21	15	17	9	4	2	521	474	481	207	21	10	16	17	4	2	507	210	369	422	59.5					
10	8	3	11	0	10	13	8	12	2	4	60	165	94	79	11	14	9	9	3	4	65	180	119	61	44.2	0	10	9	17	2	0	18	15	25	7	4	3	395	351	531	167	25	11	23	6	8	6	580	206	449	131	70					
10	8	4	11	0	16	25	38	17	2	9	107	305	425	123	25	28	20	23	6	11	165	313	256	149	51.6	0	10	9	18	2	0	22	30	36	12	6	9	549	812	846	284	43	12	34	10	11	15	1053	259	849	226	67.8					
10	8	5	11	0	5	11	10	4	2	1	34	116	108	23	5	10	5	10	0	1	32	107	60	60	41.7	0	10	9	19	2	0	24	28	30	19	3	2	606	644	678	449	36	16	43	5	13	11	879	336	990	140	66.2					
10	8	6	11	0	22	34	38	24	3	9	121	394	410	133	35	32	26	26	3	10	215	321	278	153	51.1	0	10	9	20	2	0	10	49	30	29	3	5	321	1287	607	583	54	8	50	6	15	16	1276	263	1182	172	61.1					
10	8	7	11	0	8	12	16	5	3	4	48	131	190	28	6	12	5	14	3	3	35	132	62	89	44.9	0	10	9	23	2	0	21	28	32	22	9	7	526	536	656	515	37	14	36	17	12	11	893	311	841	420	60.9					
10	8	10	11	0	33	32	40	22	11	8	196	321	409	125	27	36	36	28	8	3	167	359	339	192	53.5	0	10	9	24	2	0	35	17	32	25	10	9	791	355	577	549	39	12	41	15	11	11	902	190	849	335	68.1					
10	8	11	11	0	17	40	40	17	6	11	111	393	369	106	25	25	25	40	6	11	149	231	217	263	46.7	0	10	9	25	2	0	32	21	22	30	9	7	692	412	421	645	35	21	33	17	9	7	798	383	623	407	57.8					
10	8	12	11	0	20	25	21	22	3	4	126	215	183	130	24	20	16	26	5	6	157	179	137	163	46.6	0	10	9	26	2	0	30	20	38	22	6	8	569	401	735	467	42	10	42	10	11	10	1016	274	828	226	70					
10	8	13	11	0	31	35	37	22	5	5	216	374	378	144	19	36	33	36	10	9	128	347	306	243	48.2	0	10	9	27	2	0	26	22	42	23	6	9	689	393	773	518	46	9	53	6	11	15	1141	194	1000	99	73.6					
10	8	14	11	0	29	32	29	33	11	11	191	319	324	206	33	29	32	29	11	10	220	325	324	186	50	0	10	9	2	3	0	37	17	41	11	16	20	908	369	927	272	42	10	50	6	7	12	972	206	895	108	79.4					
10	8	17	11	0	27	24	27	27	7	6	167	252	282	164	17	30	32	37	4	4	103	298	202	243	43.5	0	10	9	3	3	0	35	16	42	17	7	11	837	332	839	405	39	14	50	6	9	15	922	258	856	165	75.8					
10	8	18	11	0	35	22	22	31	7	6	205	232	231	171	28	36	18	28	4	5	166	369	188	168	46.8	0	10	9	4	3	0	41	16	39	14	17	16	1223	334	702	341	39	19	43	9	10	9	1008	412	757	258	73.6					
10	8	19	11	0	36	29	22	31	12	2	202	283	225	163	17	31	37	32	9	1	99	280	387	179	47.7	0	10	9	5	3	0	44	8	41	14	13	15	1251	309	720	384	43	10	47	7	15	17	1037	1052	801	193	81.8					
10	8	20	11	0	26	23	40	30	7	9	140	243	413	170	19	41	31	26	3	4	105	385	316	167	49.2	0	10	9	6	3	0	33	16	55	9	16	17	927	309	1030	243	40	13	40	20	11	13	920	297	756	513	74.3					
10	8	24	11	0	38	20	25	30	7	5	235	211	270	186	23	32	27	32	9	7	155	339	308	213	49.8	0	10	9	7	3	0	33	7	23	0	9	3	744	153	603	0	2	23	25	10	3	0	78	657	454	408	65.4					
10	8	25	11	0	11	13	9	8	3	2	64	145	101	48	10	9	10	11	3	0	67	99	135	63	49.4	0	10	9	9	3	0	38	8	53	14	11	11	993	178	964	385	46	13	40	12	12	11	992	237	730	281	79					
10	8	25	11	0	19	15	15	11	5	5	113	185	181	70	10	21	16	15	2	1	59	243	205	86	49.2	0	10	9	10	3	0	27	21	37	15	5	8	702	570	864	502	45	6	41	7	12	17	1037	157	908	193	75.4					
10	8	26	11	0	19	17	19	7	7	3	109	224	252	40	10	22	11	10	5	1	65	248	253	60	55.2	0	10	9	11	3	0	33	9	45	9	10	13	806	204	921	218	43	7	35	12	10	14	893	160	572	251	80.8					
10	8	26	11	0	23	17	25	17	7	4	142	208	344	100	21	26	13	20	5	3	141	340	174	132	50.6	0	10	9	12	3	0	20	31	54	14	4	9	514	770	998	338	59	7	44	9	6	10	1245	153	932	206	74.4					
10	8	27	11	0	24	23	39	14	7	10	149	311	489	93	28	26	23	23	7	8	191	306	300	152	57	0	10	9	13	3	0	38	9	51	1	13	15	1071	226	821	14	51	6	31	10	10	12	1166	142	576	222	86.8					
10	8	28	11	0	16	23	30	32	3	10	93	254	333	196	28	23	27	24	5	10	175	270	285	148	49.8	0	10	9	14	3	0	32	8	33	7	14	6	840	192	657	172	35	4	38	5	15	9	876	103	766	143	85.2					
10	8	1	12	0	28	32	26	23	6	9	180	389	287	132	31	20	23	36	6	8	174	234	279	207	49.3	0	10	9	15	3	0	32	10	33	8	13	7	195	219	293	48	46	5	40	5	12	7	417	47	353	27	78.4					
10	8	2	12	0	26	34	40	18	6	9	149	447	465	124	32	27	21	36	4	7	185	309	277	213	50.9	0	10	9	16	3	0	41	4	29	5	12	7	467	44	311	37	29	4	36	9	12	5	368	44	358	83	86					
10	8	3	12	0	18	28	27	13	7	12	102	348	309	76	26	14	14	30	4	9	179	162	176	172	50	0	10	9	17	3	0	44	8	47	12	11	10	421	90	473	100	43	11	49	7	10	12	422	95	495	67	82.8					
10	8	4	12	0	31	31	33	26	11	8	190	392	386	154	34	28	24	36	4	3	201	319	267	204	50.2	0	10	9	18	3	0	48	6	48	10	20	18	436	58	483	89	52	8	50	2	15	14	523	65	481	14	86.4					
10	8	5	12	0	19	33	35	22	4	6	113	406	413	139	30	30	16	33	6	8	167	320	184	185	45.9	0	10	9	19	3	0	33	8	36	10	14	6	336	90	386	79	37	4	47	2	18	10	386	33	464	16	86.4					
10	8	8	12	0	28	37	24	14	8	5	160	435	280	82	25	25	27	27	8	5	155	287	304	168	49.8	0	10	9	20	3	0	46	17	53	10	15	16	395	188	523	86	67	3	55	3	13	14	631	26	556	30	87					
10	8	9	12	0	10	14	22	5	3	5	158	157	274	40	9	11	14	19	4	4	73	137	173	122	52.9	0	10	9	23	3	0	49	17	57	10	16	14	438	159	552	105	53	9	63	7	16	15	481	85	543	57	83.8					
FR3 Condition	10	8	10	12	0	21	24	26	14	7	5	581	713	730	347	20	25	16	23	5	424	607	408	538																																	

Matching to Sample, Blue versus Yellow, MTS 0s delay (Level 1)

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Elroy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Del=Delay, L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative latency, %=Percent correct

Pos	Year	Day	Month	Blue																Yellow																														
				Lcor	Linc	Rcor	Rinc	LRts	RRts	Lat	LatInc	LatRcor	LatRinc	Lcor	Linc	Rcor	Rinc	LRts	RRts	Lat	LatInc	LatRcor	LatRinc	Lcor	Linc	Rcor	Rinc	LRts	RRts	Lat	LatInc	LatRcor	LatRinc	%																
4	9	8	6	44	1	37	6	12	11	392	14	316	50	31	8	47	1	14	11	291	74	413	11	90.9	6	9	24	2	0	35	6	43	7	10	14	388	83	571	68	45	5	41	1	11	14	411	87	583	7	
4	9	9	6	43	4	60	5	13	11	381	31	496	40	45	5	60	5	15	14	397	59	503	41	91.6	6	9	26	2	0	47	2	41	9	12	11	470	29	519	94	37	13	46	4	13	11	315	157	655	35	
4	9	10	6	60	4	62	1	9	13	526	35	515	11	61	5	59	2	14	18	547	59	499	22	95.3	6	9	2	3	0	37	1	37	13	9	6	358	11	436	120	37	7	38	6	12	11	364	75	512	61	
4	9	11	6	47	6	53	1	12	13	434	60	427	12	51	5	51	1	14	15	470	47	404	7	94	6	9	4	3	0	32	1	25	2	5	5	349	15	325	19	25	3	30	4	4	3	238	43	437	42	
4	9	15	6	54	7	50	0	14	16	499	84	408	0	49	5	57	2	10	11	459	51	476	103	93.8	6	9	6	3	0	19	8	31	0	6	7	186	133	386	0	28	5	20	5	6	6	260	64	258	61	
4	9	17	6	49	12	42	0	16	15	462	115	335	0	53	7	43	1	15	13	481	61	358	9	90.3	6	9	7	3	0	27	1	35	3	8	8	249	12	449	42	19	8	32	8	4	4	165	102	429	70	
4	9	19	6	37	28	30	13	13	10	370	292	263	123	43	17	44	4	13	11	416	163	392	44	71.3	6	9	10	3	0	27	8	22	0	9	5	306	120	289	0	15	12	21	9	7	3	182	169	306	100	
4	9	22	6	34	17	46	15	6	10	332	178	421	125	46	13	46	4	13	14	449	127	418	43	77.8	9	9	16	1	0	72	4	44	26	13	14	738	64	636	268	66	3	72	5	16	20	675	56	1123	44	
4	9	23	6	38	20	43	9	12	6	374	198	366	101	49	14	44	4	14	8	478	142	377	36	78.7	9	9	19	1	0	50	11	43	9	13	15	486	162	566	96	51	5	53	1	14	16	533	81	797	17	
4	9	24	6	30	23	49	8	12	15	259	211	407	73	53	7	43	6	11	14	468	71	387	47	79.9	9	9	20	1	0	47	11	40	18	16	11	463	172	560	177	44	15	56	2	17	10	477	221	847	17	
4	9	25	6	40	23	41	7	13	10	352	255	349	52	40	18	46	9	10	7	347	168	408	74	74.6	9	9	21	1	0	58	14	36	14	15	8	506	218	508	129	55	10	54	2	18	11	525	155	868	21	
4	9	26	6	36	14	53	4	13	11	329	151	482	63	30	19	38	18	9	6	423	185	357	160	74.1	9	9	22	1	0	55	10	39	8	9	10	546	178	592	84	45	5	60	1	17	19	465	78	998	16	
4	9	29	6	36	9	39	14	13	5	319	103	368	116	43	4	39	12	16	8	505	38	382	137	80.1	9	9	23	1	0	49	7	57	4	14	14	525	113	784	38	59	6	50	2	14	14	598	76	765	25	
4	9	30	6	36	13	28	14	12	9	323	160	299	101	35	10	35	12	10	8	303	183	365	89	73.2	9	9	26	1	0	50	6	53	5	9	9	484	77	716	47	58	3	53	3	18	18	590	28	699	44	
4	9	1	7	46	12	43	15	11	9	417	161	428	218	33	16	48	19	14	14	369	209	469	193	73.3	9	9	27	1	0	47	5	43	4	15	16	520	80	681	52	48	5	42	2	13	14	554	79	669	27	
4	9	2	7	41	11	39	17	8	9	330	105	332	129	38	8	46	15	7	8	346	75	373	135	76.3	9	9	28	1	0	42	11	51	1	13	11	462	178	748	11	52	8	43	2	19	14	599	116	651	30	
4	9	3	7	48	6	39	13	14	7	422	55	401	116	36	15	48	7	15	8	331	154	421	67	80.7	9	9	30	1	0	46	3	49	3	16	17	547	55	745	34	51	3	46	0	15	14	540	47	778	0	
4	9	6	7	48	9	56	5	17	17	421	82	499	40	50	10	53	5	13	12	486	88	446	42	87.7	9	9	3	2	0	54	5	46	3	15	21	551	68	633	36	55	9	44	0	8	11	560	114	666	0	
4	9	8	7	39	14	37	6	10	8	365	117	326	58	36	15	42	5	11	11	371	143	338	40	79.4	9	9	5	2	0	60	1	56	0	15	20	648	16	746	0	60	2	41	15	9	14	684	32	648	236	
4	9	9	7	45	16	60	2	12	16	409	136	482	17	50	6	55	12	14	17	433	46	450	90	85.4	9	9	10	2	0	58	1	66	7	16	8	542	14	860	86	63	5	52	9	20	12	649	73	744	149	
4	9	13	7	41	14	56	10	11	13	336	117	466	81	43	15	52	12	12	13	375	138	417	98	79	9	9	11	2	0	44	2	55	8	13	12	424	24	807	71	58	8	44	1	15	15	632	103	587	9	
4	9	14	7	40	16	57	10	12	10	360	141	507	88	54	11	53	6	15	15	512	111	446	47	82.6	9	9	13	2	0	46	2	52	6	15	10	432	44	800	55	43	7	52	5	18	14	427	115	744	67	
4	9	15	7	41	23	45	13	13	14	347	210	382	114	39	18	56	8	10	10	345	155	440	61	74.5	10	9	25	4	0	42	6	38	4	7	8	343	63	366	29	47	1	38	2	14	13	433	8	346	26	
4	9	16	7	49	9	53	3	15	13	460	80	426	22	44	10	53	8	13	10	401	87	408	61	86.9	10	9	27	4	0	30	6	32	2	4	6	276	82	279	17	36	3	33	0	10	11	357	31	271	0	
4	9	22	7	52	9	54	7	21	11	484	83	489	61	47	9	62	4	17	8	416	86	550	30	88.1	10	9	28	4	0	50	6	51	3	14	16	418	58	446	22	46	3	61	1	15	16	426	37	507	7	
4	9	24	7	51	10	46	10	11	10	471	93	449	80	37	13	63	3	13	13	324	133	557	26	84.5	10	9	29	4	0	44	6	38	2	12	8	424	67	356	30	43	3	41	5	21	17	439	26	324	62	
4	9	28	7	37	6	45	12	12	13	309	58	421	111	35	15	42	9	11	11	357	132	361	101	79.1	10	9	30	4	0	47	7	60	3	21	16	449	50	554	36	55	3	58	2	18	12	552	27	441	20	
4	9	29	7	40	7	64	5	17	14	354	62	542	52	43	13	50	8	13	10	391	114	388	66	85.7	10	9	4	4	5	0	20	1	20	3	5	8	183	10	186	28	23	3	17	1	5	6	211	23	142	14
5	9	19	1	42	17	65	16	14	13	431	182	634	160	62	8	63	7	19	20	603	56	750	52	82.9	10	9	6	5	0	49	3	50	6	18	23	412	31	508	61	42	4	55	9	11	14	390	37	435	99	
5	9	20	1	58	1	63	3	13	17	710	8	727	41	51	6	66	4	15	18	571	47	859	32	94.4	10	9	8	5	0	41	4	44	0	6	12	376	40	394	0	41	1	45	3	11	16	374	11	357	32	
5	9	21	1	65	4	55	2	19	15	837	55	633	23	65	6	51	4	20	17	716	54	649	48	93.7	10	9	12	5	0	36	10	31	2	8	10	330	95	300	2340	40	5	33	2	11	12	363	53	286	25	
5	9	22	1	60	1	68	2	20	15	709	12	730	14	63	4	63	2	19	15	666	29	826	21	96.6	10	9	14	5	0	29	4	39	4	9	10	269	34	384	39	38	0	34	3	10	8	324	0	289	33	
5	9	23	1	76	3	59	2	23	18	835	32	753	17	60	5	72	3	15	12	572	47	888	28	95.4	5	9	26	1	38	35	68	0	11	18	374	362	817	0	56	1	38	47	6	12	492	6	489	439	70.7	
5	9	27	1	65	4	64	4	17	16	657	30	813	42																																					

Matching to Sample, Blue versus Yellow, MTS 0s delay (Level 2)

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Elroy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Del=Delay, L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative latency, %=Percent correct

Pos	Year	Day	Month	Blue																Yellow																														
				L								R								L								R																						
				Cor	Linc	Rcor	Rinc	LRts	RRts	LatLo	LatRinc	LatRcor	LatRinc	LatRcor	LatRinc	LatRcor	LatRinc	LatRcor	LatRinc	Cor	Linc	Rcor	Rinc	LRts	RRts	LatLo	LatRinc	LatRcor	LatRinc	LatRcor	LatRinc	LatRcor	LatRinc																	
1	9	20	4	58	21	50	12	20	12	833	199	409	312	56	7	64	13	19	11	745	57	553	254	81.1	6	9	14	4	0	31	4	14	4	6	4	297	57	211	45	23	3	25	1	11	8	193	33	297	13	
1	9	21	4	69	7	61	12	19	18	865	48	543	356	72	12	56	10	16	16	882	103	466	167	86.3	6	9	15	4	0	25	5	39	3	7	6	211	60	525	39	38	1	31	4	11	8	334	11	396	32	
1	9	22	4	78	5	51	12	18	16	999	46	441	163	74	5	62	5	19	16	1035	33	475	73	90.8	6	9	16	4	0	29	5	31	3	9	5	232	90	407	63	36	3	25	4	12	9	311	31	328	38	
1	9	23	4	55	8	66	12	20	17	627	66	609	901	65	3	66	5	18	15	893	20	542	92	90	6	9	17	4	0	40	8	28	11	9	9	351	115	350	92	38	5	40	4	13	12	335	71	585	28	
1	9	24	4	60	3	74	12	19	18	710	23	712	181	71	5	71	3	23	19	954	43	614	34	92.3	6	9	18	4	0	36	9	28	7	10	8	295	113	340	59	40	2	34	4	11	10	329	28	430	44	
1	9	25	4	55	2	77	9	17	19	669	17	686	403	61	5	70	8	16	16	754	35	572	151	91.6	6	9	20	4	0	44	11	35	19	6	8	371	126	369	160	60	6	40	2	11	15	497	90	439	19	
1	9	28	4	83	6	67	3	27	25	1016	38	548	30	64	6	85	4	17	15	936	64	624	33	94	6	9	22	4	0	33	9	27	14	9	10	297	121	336	128	37	8	38	1	12	11	308	107	491	7	
1	9	30	4	75	6	54	15	21	17	995	42	485	181	70	5	72	3	22	19	1003	35	537	30	90.3	6	9	23	4	0	3	17	12	1	1	0	39	14585	194	16	1	10	20	0	0	0	17	7472	209	0	
1	9	4	5	66	26	55	7	18	20	770	199	510	71	73	2	67	11	19	21	949	13	489	118	85	6	9	23	4	0	2	1	0	0	0	0	777	13	0	0	0	1	0	0	0	0	0	0	22	0	
1	9	6	5	98	10	72	6	22	17	816	94	694	69	67	9	66	4	17	14	942	114	557	85	90.1	6	9	24	4	0	25	15	40	4	9	10	259	428	671	48	30	19	36	1	8	9	286	477	493	16	
2	9	16	3	51	16	64	2	12	18	601	171	765	13	55	11	41	26	12	19	706	145	522	402	79.3	6	9	25	4	0	46	3	48	7	14	12	426	49	652	58	48	4	50	1	14	11	405	60	718	20	
2	9	18	3	54	5	72	2	16	21	643	57	901	9	61	9	47	16	11	17	765	115	611	202	88	6	9	27	4	0	35	4	31	2	9	9	293	39	360	17	33	2	36	1	12	11	275	33	427	14	
2	9	19	3	63	5	62	1	17	23	714	46	763	10	54	14	42	22	11	16	618	159	544	307	84	6	9	28	4	0	48	1	49	2	11	4	406	23	636	26	54	9	38	1	16	10	434	176	510	8	
2	9	20	3	73	2	64	0	15	13	816	18	769	0	62	12	57	9	19	17	737	159	702	112	91.8	6	9	29	4	0	30	3	31	1	7	3	266	35	412	18	38	3	22	3	10	6	351	47	268	29	
2	9	23	3	57	2	63	3	18	17	617	19	743	45	45	16	57	7	13	12	507	167	603	71	88.8	6	9	30	4	0	38	5	29	2	5	9	351	77	421	24	32	4	37	2	6	11	325	62	530	18	
2	9	24	3	58	3	63	8	17	9	598	37	770	74	44	15	61	12	19	11	451	162	724	114	85.6	6	9	4	5	0	10	4	11	2	4	3	92	77	150	15	10	4	12	2	3	2	89	1614	186	16	
2	9	25	3	63	1	64	4	14	19	658	15	781	32	53	10	55	13	13	19	541	124	645	166	89.4	6	9	5	5	0	10	3	6	2	4	3	99	35	73	18	8	4	10	1	4	2	78	54	126	16	
2	9	26	3	69	3	66	4	18	20	736	26	834	43	62	8	60	14	13	15	638	80	713	142	89.9	6	9	6	6	5	0	11	2	20	2	3	8	95	25	284	17	15	3	14	3	1	4	135	43	207	24
2	9	28	3	63	2	69	11	17	23	701	26	824	126	60	6	66	14	11	18	647	60	792	140	88.7	6	9	8	5	0	45	12	27	16	11	11	438	140	355	143	47	5	41	6	9	11	428	59	561	64	
2	9	31	3	64	5	53	17	14	12	702	73	623	191	54	7	76	3	16	15	585	79	857	27	88.5	6	9	11	5	0	24	5	22	13	11	10	261	69	290	130	29	1	36	0	10	9	244	14	504	0	
2	9	2	4	68	2	57	12	23	19	726	20	654	120	61	10	62	8	14	10	656	114	715	87	88.6	6	9	13	5	0	31	5	27	6	6	6	289	65	329	57	28	5	33	3	9	10	237	61	428	27	
5	9	16	2	60	1	67	1	12	18	676	7	715	9	42	19	29	40	7	13	457	226	359	601	76.4	6	9	15	5	0	35	5	26	11	12	10	311	61	341	78	29	7	35	5	8	6	241	82	505	36	
5	9	17	2	71	3	63	1	18	16	865	36	677	9	46	28	51	13	16	15	508	362	679	138	83.7	6	9	18	5	0	32	2	24	5	10	5	292	24	291	39	33	11	19	1	10	7	311	137	264	7	
5	9	18	2	67	3	63	1	17	17	792	22	733	10	52	11	54	18	15	17	535	117	782	150	87.7	6	9	20	5	0	30	2	37	4	6	9	295	31	524	40	28	1	34	7	9	13	256	18	500	88	
5	9	19	2	67	1	69	3	14	22	779	8	751	29	55	17	54	16	7	17	600	186	727	144	86.9	6	9	22	5	0	30	2	29	8	11	8	287	42	366	71	30	1	33	7	10	8	291	15	443	67	
5	9	20	2	39	0	0	44	0	0	371	0	0	4983	38	0	0	45	0	1	505	0	0	3496	46.4	6	9	26	5	0	21	4	20	1	9	3	199	59	315	8	23	0	20	5	13	5	233	0	246	59	
5	9	20	2	57	1	67	8	20	14	691	9	857	74	51	21	53	8	19	11	563	335	733	65	85.7	9	9	16	0	0	66	2	48	10	14	17	689	30	633	70	40	27	34	27	11	6	426	355	527	314	
5	9	23	2	65	2	67	3	19	18	787	15	741	39	62	19	49	8	14	14	688	212	636	98	88.4	9	9	17	0	0	57	1	55	6	19	18	585	17	754	51	37	26	36	20	8	9	381	398	586	239	
5	9	24	2	58	3	55	6	8	20	723	40	673	74	55	1	64	3	15	25	613	16	813	23	94.7	9	9	18	0	0	54	5	60	7	11	19	593	68	823	70	47	18	44	9	18	11	518	253	683	231	
5	9	26	2	64	2	67	8	18	17	818	27	847	95	64	12	65	0	19	16	693	140	829	0	92.2	9	9	19	0	0	47	1	48	5	18	18	521	18	670	46	41	7	47	8	12	13	463	102	715	92	
5	9	2	3	60	1	74	10	19	19	658	8	785	84	65	5	70	5	17	18	635	55	860	47	92.8	9	9	20	0	0	55	1	57	3	11	20	579	14	815	44	49	7	52	9	17	9	591	144	859	105	
5	9	4	3	80	1	65	2	21	19	922	8	739	18	62	14	67	3	15	12	655	182	833	30	93.2	9	9	23	0	0	60	1	54	5	16	13	614	10	726	61	55	5	52	6	17	19	572	68	784	70	
6	9	11	3	20	5	21	1	5	5	194	66	288	11	13	10	9	16	2	2	114	139	130	171	66.3	9	9	24	0	0	53	1	49	16	16	15	590	23	727	199	42	23	49	6	14	15	482	349	737	65	
6	9	12	3	19	3	17	1	3	3	161	70	233	12	11	13	5	13	2	3	117	168	95	117	63.4	9	9	25																							

Matching to Sample, Blue versus Yellow, MTS 0s delay (Level 3)

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Elroy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Del=Delay, L=Left, R=Right, cor=correct, inc=incorrect, Rt=reinforcement, Lat=cumulative latency, %=Percent correct

Pos	Year	Day	Month	Blue														%	Pos	Year	Day	Month	Yellow														%												
				Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLo	LatLinc	LatRcor	LatRinc	Lcor	Linc	Rcor	Rinc						LRts	RRts	LatLo	LatLinc	LatRcor	LatRinc																					
1	9	7	5	59	2	54	9	24	18	831	14	489	113	49	17	55	4	15	10	740	224	466	49	87.1	6	9	5	6	0	21	6	24	4	6	8	191	93	289	76	29	0	20	7	8	11	304	0	262	63
1	9	8	5	53	3	52	6	15	7	735	23	542	71	37	15	57	4	19	10	501	162	463	55	87.7	6	9	8	6	0	18	2	22	5	8	5	164	24	279	64	24	1	18	4	6	6	266	13	234	38
1	9	11	5	70	6	57	17	18	13	771	67	554	183	62	7	76	5	21	17	836	61	604	47	88.3	6	9	9	6	0	25	4	26	6	9	10	239	71	359	69	30	3	21	6	7	6	317	32	336	59
1	9	12	5	73	10	47	21	19	15	603	77	438	174	69	6	71	6	17	13	677	55	581	145	85.8	6	9	10	6	0	31	5	31	6	12	11	278	72	408	90	34	1	23	12	9	10	327	10	319	99
1	9	13	5	72	6	62	13	21	15	790	41	607	177	70	9	67	7	22	18	764	67	534	63	88.6	6	9	11	6	0	29	9	32	2	8	4	273	112	399	27	28	2	26	18	9	7	278	25	327	153
1	9	15	5	52	5	49	5	18	17	705	43	422	63	50	7	54	0	14	12	688	87	446	0	92.3	6	9	15	6	0	38	6	39	8	19	14	365	72	553	93	39	5	30	18	10	4	403	68	365	166
1	9	19	5	75	3	63	4	26	14	873	21	581	58	67	5	69	3	26	16	866	42	548	23	94.8	6	9	16	6	0	30	6	24	2	8	5	274	89	308	20	23	7	25	5	10	8	212	96	306	41
1	9	21	5	72	2	78	3	15	25	877	12	671	42	76	5	69	8	12	22	982	46	542	80	94.2	6	9	17	6	0	38	14	32	6	11	9	382	177	437	46	43	6	32	8	11	9	400	73	388	63
2	9	4	4	75	6	40	13	19	9	790	87	459	118	53	19	51	11	19	9	531	234	606	113	81.7	6	9	18	6	0	35	2	22	4	12	10	347	26	318	29	26	7	25	4	8	6	255	104	311	28
2	9	5	4	55	5	52	16	18	15	667	74	676	159	58	10	56	2	17	15	703	125	742	19	87	6	9	19	6	0	46	7	32	9	15	13	457	76	404	74	35	10	31	19	10	9	313	145	372	181
2	9	6	4	56	2	58	3	26	16	706	23	685	24	44	13	58	3	17	8	540	156	662	27	91.1	6	9	22	6	0	51	3	48	9	10	14	493	37	669	86	41	21	24	23	10	12	372	305	293	189
2	9	7	4	57	13	48	15	19	11	615	165	641	155	40	12	64	18	22	13	465	132	786	197	78.3	6	9	23	6	0	33	1	36	5	6	11	319	10	490	47	31	12	24	10	7	10	304	150	288	102
2	9	8	4	62	4	60	10	18	14	705	60	690	90	51	13	70	2	21	15	563	158	841	19	89.3	6	9	24	6	0	36	2	42	7	11	9	348	27	585	67	27	13	14	33	5	6	234	170	178	268
2	9	14	4	60	4	60	10	13	16	779	47	641	101	49	6	69	8	15	18	604	52	713	95	89.5	6	9	25	6	0	46	0	35	11	8	6	251	44	464	93	30	4	24	17	7	6	325	65	280	168
2	9	15	4	63	0	66	5	19	17	732	0	674	65	62	13	55	5	15	12	777	127	607	47	91.4	6	9	26	6	0	26	0	41	8	13	8	388	0	504	73	41	1	40	12	14	10	390	19	534	86
2	9	16	4	57	4	58	9	15	19	647	43	640	112	55	2	61	10	13	16	636	25	703	104	90.2	6	9	29	6	0	15	4	13	1	2	7	151	66	149	10	18	2	10	3	1	4	195	21	147	22
2	9	17	4	73	6	58	6	17	10	808	63	686	52	51	17	59	16	17	11	567	184	597	175	84.3	6	9	30	6	0	14	2	21	7	4	6	110	29	292	56	17	8	13	7	4	5	153	134	162	50
2	9	18	4	72	8	60	4	17	15	820	74	611	37	55	11	59	19	14	13	603	119	628	197	85.4	6	9	1	7	0	27	2	33	7	10	7	318	23	439	64	31	3	30	4	8	5	327	34	424	34
2	9	20	4	57	0	56	9	17	18	712	0	643	98	43	11	49	21	12	11	488	122	542	238	83.3	6	9	2	7	0	2	1	4	0	0	0	21	10	37	0	2	0	3	2	0	0	15	0	38	14
2	9	21	4	71	5	56	6	14	13	885	55	604	69	77	8	48	6	13	11	933	72	503	79	91	6	9	3	7	0	19	1	17	0	9	4	163	17	214	0	18	0	15	4	8	4	215	0	202	34
2	9	22	4	65	3	52	5	17	19	786	27	563	71	60	5	60	2	15	15	683	59	653	24	94	6	9	6	7	0	12	1	12	3	3	5	118	15	165	32	13	2	10	2	3	5	162	17	119	17
2	9	23	4	65	0	61	6	26	15	662	0	760	94	65	1	59	7	22	12	804	8	626	86	94.7	6	9	7	7	0	21	3	14	3	7	8	191	34	172	26	18	1	23	1	5	6	159	10	256	6
2	9	24	4	57	0	68	7	25	20	563	0	651	72	65	3	61	4	19	14	893	28	663	38	94.7	6	9	8	7	0	23	1	29	5	9	8	189	9	418	50	25	0	30	4	9	9	221	0	357	35
2	9	25	4	63	1	57	9	24	21	756	10	681	139	62	2	56	12	15	13	695	19	657	173	90.8	6	9	9	7	0	32	0	32	4	10	7	262	0	395	40	40	0	29	1	12	10	350	0	368	8
2	9	28	4	44	1	80	5	15	21	526	14	927	55	62	5	58	5	13	21	735	51	669	45	93.8	6	9	13	7	0	31	4	36	7	8	9	344	58	459	66	36	0	33	8	8	9	344	0	570	66
2	9	30	4	67	1	64	4	13	14	760	10	773	36	61	6	62	7	19	19	735	62	665	89	93.4	6	9	15	7	0	42	5	34	2	11	11	388	80	421	31	35	2	36	8	11	10	311	35	525	73
2	9	4	5	54	5	56	8	24	18	688	50	593	85	47	12	56	8	19	10	607	122	578	99	86.6	6	9	17	7	0	32	4	32	2	9	12	286	55	373	26	34	0	31	4	10	12	307	0	406	36
2	9	6	5	57	2	63	9	10	15	720	24	672	98	60	3	65	2	19	25	742	28	667	19	93.9	6	9	21	7	0	28	4	29	3	7	5	253	50	344	25	32	1	28	3	12	7	318	21	340	24
5	9	6	3	61	14	59	14	14	15	735	169	626	223	53	23	65	6	16	17	670	261	856	78	80.7	6	9	23	7	0	33	5	25	2	7	5	326	70	294	17	28	1	32	5	12	10	268	18	402	1
5	9	7	3	72	4	63	10	18	19	902	51	671	121	56	18	70	5	16	19	603	193	843																											

Matching to Sample, Blue versus Yellow, MTS 0s delay (Level 4)

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Elroy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Del=Delay, L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative latency, %=Percent correct

Pos	Year	Day	Month	Blue														%	Pos	Year	Day	Month	Yellow														%												
				Linc	Rinc	Rinc	LRts	RRts	LatLo	LatLinc	LatRcor	LatRinc	Lcor	Linc	Rcor	Rinc	LRts						RRts	LatLo	LatLinc	LatRcor	LatRinc	Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLo	LatLinc	LatRcor		LatRinc											
1	9	25	5	31	23	68	0	11	7	483	1759	1261	0	14	42	44	20	6	1	249	1213	2121	370	64.9	9	9	4	4	46	3	57	5	12	17	424	47	719	43	51	2	55	3	16	21	411	30	768	35	94.1
1	9	26	5	46	16	63	5	18	16	707	232	585	436	30	27	60	12	14	12	566	232	477	174	76.8	9	9	5	4	46	5	67	1	15	19	464	66	748	13	64	1	49	3	14	16	605	7	627	47	95.8
1	9	27	5	69	9	67	4	21	15	993	70	561	66	43	26	60	18	18	12	651	180	441	238	80.7	9	9	6	4	50	0	67	0	20	17	488	0	738	0	53	1	62	1	14	11	490	10	721	13	99.1
1	9	28	5	25	3	26	2	7	8	413	62	237	40	18	5	24	8	7	6	382	38	189	105	83.8	9	9	7	4	52	3	55	2	18	14	483	46	695	18	47	8	56	1	18	13	434	102	712	16	93.8
1	9	29	5	50	4	64	11	10	13	661	30	568	167	61	8	49	12	14	18	954	58	440	154	86.5	9	9	8	4	56	1	52	6	10	10	508	18	611	48	52	4	58	1	18	19	450	44	681	14	94.8
1	9	2	6	53	10	63	8	23	15	700	86	514	87	53	7	64	9	16	10	855	50	507	116	87.3	9	9	15	4	57	0	54	3	13	13	562	0	617	29	38	3	68	5	14	13	371	49	823	44	95.2
1	9	4	6	55	3	50	4	14	18	773	21	417	52	46	11	48	8	12	16	639	103	378	87	88.4	9	9	17	4	53	1	56	4	17	20	497	12	657	35	53	3	55	2	10	12	473	34	708	18	95.6
1	9	5	6	48	7	67	4	18	15	585	57	538	140	49	7	58	11	19	16	740	60	456	139	88.4	9	9	20	4	52	4	48	3	12	12	523	58	533	51	51	2	50	2	14	13	462	1432	585	29	94.8
1	9	8	6	62	10	65	1	16	15	868	87	514	14	61	11	62	5	23	22	976	85	453	53	90.3	9	9	22	4	43	1	25	5	7	5	462	8	292	79	36	5	32	0	13	10	329	56	417	0	92.5
1	9	9	6	72	4	75	3	14	12	947	39	615	60	71	14	65	2	20	17	1010	106	517	22	92.5	9	9	9	6	72	4	75	3	14	12	947	39	615	60	71	14	65	2	20	17	1010	106	517	22	92.5
1	9	11	6	69	10	44	22	17	17	825	79	368	312	55	10	79	3	20	19	805	66	575	30	84.6	9	9	11	6	69	10	44	22	17	17	825	79	368	312	55	10	79	3	20	19	805	66	575	30	84.6
1	9	16	6	42	6	40	10	13	12	520	40	336	138	42	3	47	6	16	13	558	22	363	55	87.2	9	9	16	6	42	6	40	10	13	12	520	40	336	138	42	3	47	6	16	13	558	22	363	55	87.2
1	9	18	6	67	14	51	14	11	13	764	99	401	213	73	5	63	5	18	19	916	49	509	72	87	9	9	18	6	67	14	51	14	11	13	764	99	401	213	73	5	63	5	18	19	916	49	509	72	87
2	9	7	5	43	15	44	20	13	17	672	192	571	284	55	7	53	6	12	13	733	100	642	125	80.2	2	9	7	5	43	15	44	20	13	17	672	192	571	284	55	7	53	6	12	13	733	100	642	125	80.2
2	9	8	5	35	14	63	21	8	16	702	184	718	289	61	5	55	13	11	19	880	60	573	224	80.1	2	9	8	5	35	14	63	21	8	16	702	184	718	289	61	5	55	13	11	19	880	60	573	224	80.1
2	9	11	5	41	17	68	9	13	14	671	220	884	127	60	11	51	13	13	15	746	197	620	208	81.5	2	9	11	5	41	17	68	9	13	14	671	220	884	127	60	11	51	13	13	15	746	197	620	208	81.5
2	9	12	5	48	8	77	2	14	19	682	117	806	10	63	13	43	16	12	18	717	158	461	195	85.6	2	9	12	5	48	8	77	2	14	19	682	117	806	10	63	13	43	16	12	18	717	158	461	195	85.6
2	9	13	5	53	11	56	2	15	13	882	118	563	48	55	11	41	15	18	15	648	122	415	232	84	2	9	13	5	53	11	56	2	15	13	882	118	563	48	55	11	41	15	18	15	648	122	415	232	84
2	9	14	5	72	2	61	5	18	16	1080	29	700	52	59	1	74	7	18	15	718	10	780	85	94.7	2	9	14	5	72	2	61	5	18	16	1080	29	700	52	59	1	74	7	18	15	718	10	780	85	94.7
2	9	15	5	74	8	54	4	20	18	1107	96	574	35	63	14	57	6	12	10	661	173	613	66	86.6	2	9	15	5	74	8	54	4	20	18	1107	96	574	35	63	14	57	6	12	10	661	173	613	66	86.6
2	9	18	5	57	11	57	8	13	14	897	138	628	198	59	8	56	9	14	15	663	92	622	112	86.4	2	9	18	5	57	11	57	8	13	14	897	138	628	198	59	8	56	9	14	15	663	92	622	112	86.4
2	9	19	5	59	3	66	9	18	18	802	33	725	96	59	11	58	9	14	14	622	194	646	104	88.3	2	9	19	5	59	3	66	9	18	18	802	33	725	96	59	11	58	9	14	14	622	194	646	104	88.3
2	9	20	5	64	4	57	8	7	14	947	50	633	85	64	6	50	13	16	24	887	134	598	168	88.3	2	9	20	5	64	4	57	8	7	14	947	50	633	85	64	6	50	13	16	24	887	134	598	168	88.3
2	9	22	5	65	2	65	9	17	19	890	20	666	160	66	9	51	14	11	11	800	77	553	161	87.9	2	9	22	5	65	2	65	9	17	19	890	20	666	160	66	9	51	14	11	11	800	77	553	161	87.9
2	9	26	5	60	3	51	11	20	23	797	30	528	159	45	15	51	12	11	11	606	165	561	159	83.5	2	9	26	5	60	3	51	11	20	23	797	30	528	159	45	15	51	12	11	11	606	165	561	159	83.5
2	9	27	5	63	5	43	17	15	11	817	43	444	237	42	9	58	17	18	11	481	98	655	243	81.1	2	9	27	5	63	5	43	17	15	11	817	43	444	237	42	9	58	17	18	11	481	98	655	243	81.1
2	9	28	5	45	4	51	12	10	14	594	36	553	175	53	7	35	15	10	14	626	84	407	212	82.9	2	9	28	5	45	4	51	12	10	14	594	36	553	175	53	7	35	15	10	14	626	84	407	212	82.9
2	9	29	5	54	5	49	7	15	20	745	47	512	91	46	3	49	17	12	15	549	30	556	215	86.1	2	9	29	5	54	5	49	7	15	20	745	47	512	91	46	3	49	17	12	15	549	30	556	215	86.1
2	9	2	6	55	6	45	7	14	18	830	90	471	111	49	2	51	11	14	19	506	27	584	152	88.5	2	9	2	6	55	6	45	7	14	18	830	90	471	111	49	2	51	11	14	19	506	27	584	152	88.5
2	9	5	6	48	16	58	6	11	18	684	156	548	91	70	1	48	9	14	19	749	11	519	101	87.5	2	9	5	6	48	16	58	6	11	18	684	156	548	91	70	1	48	9	14	19	749	11	519	101	87.5
2	9	9	6	49	16	54	8	13	11	818	267	565	170	54	4	52	17	16	14	647	42	748	343	82.3	2	9	9	6	49	16	54	8	13	11	818	267	565	170	54	4	52	17	16	14	647	42	748	343	82.3
2	9	10	6	57	8	59	3	11	11	871	113	617	50	62	11	43	13	16	15	705	125	535	185	86.3	2	9	10	6	57	8	59	3	11	11	871	113	617	50	62	11	43	13	16	15	705	125	535	185	86.3
2	9	11	6	44	17	42	14	18	14	686	217	473	260	33	23	45	15	17	11	468	318	571	235	70.4	2	9																							

Matching to Sample, Blue versus Yellow, MTS 0s delay (Level 5)

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Elroy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Del=Delay, L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative latency, %=Percent correct

Pos	Year	Day	Month	Blue														%	Pos	Year	Day	Month	Yellow														%												
				L							R												L							R																			
				Lcor	Linc	Lror	Lrinc	LRTs	LRft	Lat	Lcor	Linc	Lror	Lrinc	LRTs	LRft	Lat						Lcor	Linc	Lror	Lrinc	LRTs	LRft	Lat	Lcor	Linc	Lror	Lrinc	LRTs	LRft	Lat													
1	9	22	6	44	28	38	39	10	9	452	222	298	437	58	7	65	16	15	14	794	62	489	249	69.5	5	9	11	6	51	8	49	11	17	16	637	68	513	130	37	27	41	14	14	11	416	258	420	153	74.8
1	9	23	6	47	29	43	36	8	14	496	218	325	388	71	15	62	4	13	18	817	153	471	58	72.6	5	9	15	6	71	6	42	8	16	13	869	51	422	87	39	25	51	11	13	10	439	212	537	110	80.2
1	9	24	6	45	30	44	24	11	14	517	228	340	271	68	5	66	5	21	22	812	36	490	58	77.7	5	9	16	6	53	6	45	10	14	13	639	65	418	121	26	20	49	19	9	9	295	178	523	221	75.9
1	9	25	6	48	19	50	27	12	17	480	137	418	300	62	6	70	7	14	19	668	50	553	83	79.6	5	9	17	6	50	16	51	8	12	15	587	140	496	103	38	26	36	25	9	13	416	241	361	280	70
1	9	26	6	64	12	66	10	21	19	713	107	492	130	71	4	74	3	22	21	850	23	587	31	90.5	5	9	18	6	56	17	53	10	11	17	632	149	507	126	50	16	49	19	9	14	546	154	505	205	77
1	9	29	6	71	2	75	6	21	17	762	13	586	65	67	10	72	3	22	19	805	70	538	50	93.1	5	9	19	6	61	10	52	9	22	14	725	91	497	103	40	33	46	15	17	8	440	314	500	183	74.8
1	9	30	6	62	0	46	0	15	14	703	0	465	0	49	4	50	4	15	15	593	41	512	41	96.3	5	9	22	6	64	4	47	6	18	19	791	32	448	92	39	23	46	14	10	9	475	236	492	221	80.7
1	9	1	7	89	7	53	7	20	19	906	49	429	76	64	7	83	3	26	23	760	50	628	32	92.3	5	9	23	6	47	9	58	5	9	13	615	99	554	68	42	19	45	13	17	19	555	182	477	183	80.7
1	9	2	7	75	4	70	9	17	16	704	28	560	159	75	4	73	6	21	20	823	28	599	59	92.7	5	9	24	6	52	14	61	4	18	18	625	146	582	57	43	19	54	16	13	12	518	176	562	192	79.8
1	9	6	7	65	20	45	17	17	14	695	141	377	161	61	16	63	5	23	21	758	118	466	54	80.1	5	9	25	6	63	10	50	7	16	17	774	106	429	88	55	18	49	9	14	14	616	144	514	100	83.1
1	9	7	7	26	17	32	12	10	9	280	149	279	165	39	6	27	16	9	7	469	89	234	183	70.9	5	9	26	6	66	3	63	4	18	18	802	33	622	47	58	6	54	16	15	731	52	624	231	89.3	
1	9	8	7	42	11	56	14	15	12	442	72	459	200	53	13	49	7	15	11	644	104	367	94	81.6	5	9	29	6	62	1	71	2	14	10	736	9	635	20	54	15	55	11	19	13	700	149	574	194	89.3
1	9	9	7	65	17	52	11	19	13	749	133	442	110	55	17	68	5	21	13	825	122	509	71	82.8	5	9	30	6	58	3	57	1	18	10	758	31	542	18	44	18	52	5	20	11	609	171	541	64	88.7
1	9	10	7	50	21	58	23	17	9	521	164	483	264	73	8	64	6	23	17	881	69	448	102	80.9	5	9	1	7	68	7	57	3	17	12	811	70	521	47	43	19	69	4	15	10	618	159	690	54	87.8
1	9	13	7	70	11	53	11	20	20	690	89	495	118	60	10	67	7	13	14	706	86	515	62	86.5	5	9	2	7	57	2	64	5	16	17	686	14	580	67	53	12	48	16	15	19	611	100	506	190	86.4
1	9	15	7	54	9	56	11	14	14	534	68	471	106	67	6	50	7	16	16	745	38	390	85	87.3	5	9	6	7	52	14	53	7	15	12	629	117	465	112	54	10	54	7	16	12	658	73	531	91	84.9
1	9	17	7	73	8	49	15	19	15	735	68	445	210	69	3	68	6	21	15	776	21	546	76	89	5	9	8	7	48	14	32	10	7	7	667	152	321	131	40	8	49	8	12	12	494	72	537	112	80.9
1	9	21	7	64	16	60	15	17	17	642	120	474	504	81	7	62	4	19	21	900	52	463	35	86.4	5	9	9	7	47	9	74	3	20	21	607	85	718	36	54	7	63	11	14	13	667	54	722	130	88.8
1	9	23	7	59	12	74	1	18	16	646	88	669	12	76	2	65	3	23	20	866	12	547	33	93.8	5	9	13	7	45	17	60	14	12	19	540	173	571	184	55	9	51	20	14	20	671	72	556	239	77.9
2	9	22	6	56	9	46	21	15	11	815	104	549	447	41	14	65	12	10	6	494	168	740	222	78.8	5	9	14	7	50	16	67	13	14	12	582	154	602	158	60	16	54	16	15	15	673	132	563	171	79.1
2	9	23	6	60	12	43	17	12	9	798	139	476	226	38	14	64	16	13	12	453	161	720	195	77.7	5	9	15	7	63	11	55	7	12	16	751	119	552	95	51	11	61	13	12	18	617	172	687	195	84.6
2	9	24	6	45	9	42	20	17	13	600	104	464	248	42	16	47	10	13	10	576	158	474	133	76.2	9	9	24	4	46	8	47	2	14	18	504	124	535	34	56	5	43	0	9	15	566	47	539	0	92.8
2	9	25	6	52	7	47	14	17	13	663	70	498	176	45	10	59	7	18	14	521	101	585	91	84.2	9	9	25	4	46	1	47	7	16	17	527	16	542	102	43	6	50	1	11	10	464	79	627	22	92.5
2	9	26	6	54	6	59	2	17	21	790	65	572	20	60	5	49	6	12	17	737	58	513	97	92.1	9	9	27	4	36	5	41	6	14	13	410	75	512	73	24	10	52	0	14	12	229	280	688	0	67.9
2	9	29	6	2	0	1	0	1	0	29	0	10	11	1	0	1	0	0	0	12	0	12	0	83.3	9	9	28	4	42	2	54	9	10	18	452	27	651	182	53	2	50	1	8	15	575	25	584	15	93.4
2	9	30	6	60	5	52	2	14	14	833	64	580	27	47	9	51	10	11	10	608	105	579	166	89	9	9	29	4	26	16	34	10	8	8	269	276	474	161	31	4	44	6	13	15	313	96	610	157	78.9
2	9	1	7	62	8	55	4	15	16	840	91	523	49	58	3	60	9	14	15	748	41	627	120	90.7	9	9	30	4	27	23	34	8	7	8	270	361	399	135	36	8	44	3	10	12	384	269	679	67	77
2	9	2	7	51	3	54	9	12	15	685	38	587	157	57	3	45	11	13	19	628	19	499	338	88.8	9	9	1	5	16	19	27	9	3	7	171	260	257	133	31	3	30	6	5	7	305	279	406	121	73.8
2	9	3	7	52	9	53	8	12	13	679	115	570	148	57	4	55	6	15	17	674	41	544	81	88.9	9	9	4	5	26	7	29	3	5	9	406	116	260	36	25	5	32	4	4	7	282	71	444	63	85.5
2	9	6	7	55	9	57	8	19	14	796	98	613	79	57	8	62	1	19	13	724	78	647	9	89.9	9	9	5	5	28	5	34	7	8	11	512	82	333	81	39	0	26	8	6	9	357	0	323	122	86.4
2	9	8	7	39	5	53	6	14	17	480	52	552	65	48	6	48	0	11	12	574	51	466	0	91.7	9	9	6	5	43	2	62	5	12	12	440	40	598	67	54	2	35	21	14	13	499	16	421	331	86.6
2	9	10	7	54	9	50	12	13	15	697	92	500	131	66	0	54	5	16	18	789	0	545	106	89.6	9	9	7	5	49	2	43	1	9	16	512	36	456	62	48	2	40	7	9	17	445	17	494	112	93.8
2	9	14	7	49	11	57	7	16	15	664	112	597	86	63	3	54	3	18	16	775	7	552	38	90.3	9	9	8	5	37																				

Matching to Sample, Blue versus Yellow, Simultaneous MTS Probe sessions (Level 1)

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Erloy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Lev=test level L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative latency, Tcor=total number of corrects, T=trial count %=Percent correct, Ab=number of aborts

Blue																				Yellow																			
Pos	Year	Day	Month	Lev	Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLcor	LatLinc	LatRcor	LatRinc	Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLcor	LatLinc	LatRcor	LatRinc	Tcor	T	%	Ab											
5	8	9	12	4	2	0	3	0	0	0	257	0	173	0	0	1	2	0	4	0	197	32	0	233	5	12	41.7	0											
5	8	9	12	5	4	0	2	0	0	0	953	0	51	0	0	1	2	0	4	0	0	0	0	0	6	9	23	0											
5	8	18	12	0	20	9	22	1	10	12	279	82	305	8	23	8	24	1	12	13	283	51	261	9	89	106	39	0											
5	8	18	12	1	1	0	2	1	0	0	19	0	35	8	2	1	3	0	0	0	20	8	33	0	8	10	80	0											
5	8	18	12	2	0	2	3	0	0	0	0	30	31	0	2	0	3	0	0	0	14	0	36	0	8	10	80	0											
5	8	18	12	3	3	0	1	1	0	0	107	0	117	315	1	2	1	0	0	0	9	16	20	32	7	10	70	0											
5	8	18	12	4	2	0	4	1	0	0	427	0	1855	213	0	2	0	2	0	0	0	37	0	20	6	11	54.5	0											
5	8	18	12	5	1	2	0	2	0	0	684	474	0	57	2	3	1	0	0	0	147	229	104	0	4	11	38.4	0											
5	8	22	12	0	22	7	26	6	15	9	257	55	329	49	24	7	24	8	12	5	228	66	297	63	96	122	78.7	0											
5	8	22	12	1	2	0	2	0	0	0	26	0	22	0	7	0	1	1	0	0	62	0	12	7	12	13	92.3	0											
5	8	22	12	2	2	2	3	0	0	0	22	15	36	0	2	1	2	1	0	0	24	8	35	7	9	13	69.2	0											
5	8	22	12	3	4	3	2	0	0	0	274	428	17	0	0	2	2	0	0	0	17	21	0	8	13	61.5	0	0											
5	8	22	12	4	0	3	4	0	0	0	110	26	0	0	3	0	2	0	0	0	75	0	537	4	12	33.3	0	0											
5	8	22	12	5	0	1	3	1	0	0	192	46	4	0	3	5	0	0	0	0	79	485	0	8	13	61.5	0	0											
5	9	12	1	0	54	27	84	12	27	34	676	229	970	94	46	15	66	7	29	28	445	130	917	46	213	258	82.6	0											
5	9	12	1	1	5	0	4	2	0	0	62	0	36	15	5	3	4	1	0	0	51	25	47	9	18	24	75	0											
5	9	12	1	2	7	0	5	0	0	0	91	0	42	0	4	1	6	1	0	0	37	14	62	8	22	24	91.7	0											
5	9	12	1	3	1	0	6	10	0	0	80	110	0	0	3	3	2	0	0	0	28	35	30	13	24	54.2	0	0											
5	9	12	1	4	0	10	3	0	0	0	254	21	0	0	6	5	0	0	0	0	115	111	0	8	24	33.3	0	0											
5	9	12	1	5	1	5	7	0	0	0	37	963	144	0	0	6	6	0	0	0	123	328	0	14	25	56	0	0											
5	9	14	1	0	30	0	29	1	18	15	406	0	401	7	28	0	38	3	19	17	269	0	490	22	123	127	96.9	0											
5	9	14	1	1	4	0	2	0	0	0	49	0	26	0	3	0	3	0	0	0	26	0	45	0	12	100	0	0											
5	9	14	1	2	5	0	4	0	0	0	58	0	37	0	1	0	2	1	0	0	8	0	39	32	12	13	92.3	0											
5	9	14	1	3	1	1	3	0	0	0	12	45	38	0	0	5	2	1	0	0	62	35	30	6	13	46.2	0	0											
5	9	14	1	4	1	4	2	0	0	0	126	40	16	0	2	4	0	0	0	0	34	170	0	7	13	53.8	0	0											
5	9	14	1	5	0	5	3	0	0	0	196	36	0	0	1	3	0	0	0	0	16	80	0	6	12	50	0	0											
5	9	16	1	0	25	1	36	2	13	18	370	8	398	16	32	3	29	1	13	17	322	35	391	9	122	129	95.6	0											
5	9	16	1	1	3	0	2	0	0	0	36	0	27	0	5	0	3	0	0	0	61	0	47	0	13	100	0	0											
5	9	16	1	2	6	0	2	0	0	0	83	0	25	0	1	0	3	1	0	0	7	0	28	11	12	13	92.3	0											
5	9	16	1	3	1	3	3	0	0	0	20	91	35	0	2	2	1	1	0	0	21	27	8	20	7	13	53.8	0											
5	9	16	1	4	0	4	2	0	0	0	180	24	0	0	2	3	2	0	0	0	17	89	71	5	13	38.5	0	0											
5	9	16	1	5	0	4	2	0	0	0	86	20	0	0	2	5	0	0	0	0	23	130	0	7	13	53.8	0	0											
6	8	9	12	0	18	4	33	0	8	13	188	68	450	0	24	4	25	2	11	14	211	57	367	22	100	110	90.9	0											
6	8	9	12	1	4	1	3	0	0	0	41	16	35	0	0	0	3	0	0	0	0	0	47	0	10	11	90.9	0											
6	8	9	12	2	2	0	2	0	0	0	34	0	30	0	2	1	2	2	0	0	16	10	27	15	8	11	72.7	0											
6	8	9	12	3	0	4	3	0	0	0	89	280	0	0	1	3	0	0	0	0	0	31	48	0	6	11	54.5	0											
6	8	9	12	4	2	0	3	0	0	0	54	0	417	0	0	2	4	0	0	0	70	311	0	9	11	81.8	0	0											
6	8	9	12	5	3	1	1	0	0	0	215	615	295	0	2	3	1	0	0	0	2471	1312	17	7	11	63.6	0	0											
6	8	11	12	0	23	3	22	1	11	11	224	56	330	7	22	0	19	0	12	10	190	0	311	0	86	90	95.6	0											
6	8	11	12	1	5	0	1	0	0	0	40	0	19	0	2	0	1	0	0	0	16	0	17	0	9	9	100	0											
6	8	11	12	2	1	0	0	0	0	0	8	0	0	0	4	2	1	1	0	0	34	29	16	22	6	9	66.7	0											
6	8	11	12	3	1	1	0	0	0	0	10	0	21	0	3	1	2	1	0	0	128	15	34	8	7	9	77.8	0											
6	8	11	12	4	2	2	1	0	0	0	23	37	844	0	0	0	2	2	0	0	0	0	33	54	5	9	55.6	0											
6	8	11	12	5	1	0	2	1	0	0	13	0	896	227	0	4	0	1	0	0	107	0	14	3	9	33.3	0	0											
6	8	18	12	0	13	4	8	0	8	5	125	75	131	0	13	0	10	0	8	7	108	0	148	0	44	48	91.7	0											
6	8	18	12	1	0	0	2	0	0	0	0	34	0	0	2	0	1	0	0	0	17	0	12	0	5	5	100	0											
6	8	18	12	2	0	1	1	0	0	0	11	21	0	0	1	0	2	0	0	0	12	0	30	0	4	5	80	0											
6	8	18	12	3	0	1	0	0	0	0	14	0	0	0	2	1	0	1	0	0	60	13	0	16	2	5	40	0											
6	8	18	12	4	0	1	0	1	0	0	194	0	112	0	0	0	1	0	0	0	0	0	13	0	3	0	0	0											
6	8	18	12	5	1	2	0	0	0	0	39	77	0	0	0	0	0	2	0	0	0	0	19	1	5	20	0	0											
6	8	22	12	0	14	0	14	0	4	3	142	0	238	0	15	3	17	3	8	8	137	39	267	27	60	66	90.9	0											
6	8	22	12	1	5	0	0	0	0	0	49	0	0	0	1	1	0	0	0	0	7	19	0	0	6	7	85.7	0											
6	8	22	12	2	0	0	1	1	0	0	0	0	43	16	1	0	1	3	0	0	7	0	24	30	3	7	42.9	0											
6	8	22	12	3	2	2	1	0	0	0	36	32	12	0	0	0	1	0	0	0	0	0	10	3	6	50	0	0											
6	8	22	12	4	0	0	5	1	0	0	0	86	13	0	1	0	0	0	0	0	20	0	0	5	7	71.4	0	0											
6	8	22	12	5	2	0	1	0	0	0	610	0	28	0	0	1	0	2	0	0	0	23	0	168	3	6	50	0											
6	9	21	1	0	8	1	6	4	5	4	92	11	85	50	3	0	6	2	2	1	27	0	115	20	23	30	76.7	0											
6	9	21	1	1	1	0	0	0	0	0	8	0	0	0	1	0	1	0	0	0	8	0	13	0	3	3	100	0											
6	9	21	1	2	1	0	0	0	0	0	15	0	0	0	2	0	0	0	0	0	29	0	0	3	3	100	0	0											
6	9	21	1	3	0	0	0	0	0	0	0	0	0																										

Matching to Sample, Blue versus Yellow, Simultaneous MTS Probe sessions (Level 1)

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Elroy, 10=Taylor. All sessions 3600 seconds.

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Blue																				Yellow																																							
Pos	Year	Day	Month	Lev	Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLcor	LatLinc	LatRcor	LatRinc	Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLcor	LatLinc	LatRcor	LatRinc	Tcor	T	%	Ab	Pos	Year	Day	Month	Lev	Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLcor	LatLinc	LatRcor	LatRinc	Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLcor	LatLinc	LatRcor	LatRinc	Tcor	T	%	Ab		
9	9	14	1	2	1	0	0	4	0	0	10	0	0	105	2	0	0	7	0	0	27	0	0	35	3	14	21.4	0	9	9	14	1	2	1	0	0	4	0	0	10	0	0	105	2	0	0	7	0	0	27	0	0	35	3	14	21.4	0		
9	9	14	1	3	2	0	0	4	0	0	58	0	0	130	4	1	0	3	0	0	72	14	0	21	6	14	42.9	0	9	9	14	1	4	2	0	0	4	0	0	152	0	0	85	4	0	0	4	0	0	990	0	0	56	6	14	42.9	0		
9	9	14	1	5	2	0	0	4	0	0	20	0	0	555	6	0	0	2	0	0	138	0	0	47	8	14	57.1	0	9	9	14	1	5	2	0	0	4	0	0	20	0	0	555	6	0	0	2	0	0	138	0	0	47	8	14	57.1	0		
10	9	5	4	0	12	14	34	6	8	12	102	116	281	53	35	3	35	3	15	18	322	29	302	23	116	142	81.7	0	10	9	5	4	1	4	1	7	0	0	0	36	8	56	0	0	1	1	0	0	0	10	8	0	12	14	85.7	0			
10	9	5	4	2	1	2	3	0	0	0	9	16	25	0	2	0	6	0	0	0	19	0	46	0	12	14	85.7	0	10	9	5	4	3	4	0	1	2	0	0	25	0	10	12	1	3	3	0	0	0	11	22	31	0	9	14	64.3	0		
10	9	5	4	3	4	0	1	2	0	0	25	0	10	12	1	3	3	0	0	0	11	22	31	0	9	14	64.3	0	10	9	5	4	4	3	0	1	4	0	0	26	0	8	30	3	0	0	3	0	0	21	0	0	41	7	14	50	0		
10	9	5	4	5	2	0	4	1	0	0	11	0	40	6	2	1	0	4	0	0	28	11	0	50	8	14	57.1	0	10	9	5	4	5	2	0	4	1	0	0	11	0	40	6	2	1	0	4	0	0	28	11	0	50	8	14	57.1	0		
10	9	7	4	0	11	1	11	2	7	7	95	25	108	23	8	1	8	4	3	4	69	9	59	33	38	46	82.6	0	10	9	7	4	1	1	0	0	1	0	0	9	0	0	8	0	0	1	1	0	0	0	0	7	14	2	4	50	0		
10	9	7	4	2	0	0	2	0	0	0	0	0	19	0	2	0	0	0	0	0	19	0	0	0	4	4	100	0	10	9	7	4	3	0	0	0	2	0	0	0	0	19	0	2	0	0	0	0	19	0	0	0	0	4	4	100	0		
10	9	7	4	3	0	0	0	2	0	0	0	0	0	15	0	0	1	2	0	0	0	0	12	14	1	5	20	0	10	9	7	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	4	5	80	0				
10	9	7	4	5	1	0	0	0	0	0	7	0	0	0	1	2	0	1	0	0	6	2546	0	44	2	5	40	0	10	9	7	4	5	1	0	0	0	0	7	0	0	0	1	2	0	1	0	0	6	2546	0	44	2	5	40	0			
10	9	14	4	0	11	10	10	3	5	6	103	71	86	40	17	2	10	1	7	6	180	18	76	7	48	64	75	0	10	9	14	4	1	2	1	1	0	0	17	9	0	0	0	2	0	0	0	0	0	0	9	0	0	12	0	5	6	83.3	0
10	9	14	4	2	2	1	0	0	0	0	15	9	0	0	1	2	0	0	0	0	9	15	0	4	6	66.7	0	10	9	14	4	3	0	0	1	0	0	0	0	7	0	1	1	2	1	0	0	0	7	11	24	6	4	6	66.7	0			
10	9	14	4	4	2	0	1	1	0	0	120	0	24	16	0	2	0	1	0	0	0	83	0	11	3	7	42.9	0	10	9	14	4	4	2	0	1	1	0	0	120	0	24	16	0	2	0	1	0	0	0	83	0	11	3	7	42.9	0		
10	9	14	4	5	1	0	1	1	0	0	12	0	9	185	0	2	1	1	0	0	0	65	1204	21	3	7	42.9	0	10	9	14	4	5	1	0	1	1	0	0	12	0	9	185	0	2	1	1	0	0	0	65	1204	21	3	7	42.9	0		
10	9	16	4	0	7	2	8	1	5	4	58	18	78	8	13	2	13	1	5	4	128	30	110	10	41	47	87.2	0	10	9	16	4	1	1	0	1	0	0	14	0	9	11	1	0	0	0	0	0	8	0	0	0	3	4	75	0			
10	9	16	4	2	2	0	2	0	0	0	14	0	17	0	0	0	0	1	0	0	0	0	0	6	4	5	80	0	10	9	16	4	2	2	0	2	0	0	14	0	17	0	0	0	1	0	0	0	0	0	0	6	4	5	80	0			
10	9	16	4	3	1	0	1	2	0	0	8	0	11	20	0	1	0	0	0	0	11	0	0	2	5	40	0	10	9	16	4	3	1	0	1	0	0	8	0	11	20	0	1	0	0	0	0	11	0	0	0	2	5	40	0				
10	9	16	4	4	1	0	0	1	0	0	26	0	0	21	0	1	0	1	0	0	0	28	0	9	1	4	25	0	10	9	16	4	4	1	0	0	1	0	0	26	0	0	21	0	1	0	1	0	0	0	28	0	9	1	4	25	0		
10	9	16	4	5	3	0	0	0	0	0	71	0	0	0	1	0	0	0	0	0	0	24	0	3	4	75	0	10	9	16	4	5	3	0	0	0	0	71	0	0	0	1	0	0	0	0	0	0	24	0	3	4	75	0					
10	9	18	4	0	13	4	16	5	7	11	120	60	214	47	13	3	17	1	8	11	134	37	146	8	59	72	81.9	0	10	9	18	4	1	2	0	1	0	0	20	0	13	0	1	2	0	0	0	9	7	19	0	6	7	85.7	0				
10	9	18	4	2	2	1	2	0	0	0	26	7	19	0	1	1	0	0	0	0	11	9	0	0	5	7	71.4	0	10	9	18	4	2	2	1	2	0	0	26	7	19	0	1	1	0	0	0	0	11	9	0	0	5	7	71.4	0			
10	9	18	4	3	0	1	0	2	0	0	0	8	0	13	1	2	1	1	0	0	7	29	8	6	2	8	25	0	10	9	18	4	3	0	0	1	0	0	0	8	0	13	1	2	1	1	0	0	7	29	8	6	2	8	25	0			
10	9	18	4	4	0	0	0	1	0	0	0	0	0	9	1	0	1	5	0	0	8	0	7	43	2	8	25	0	10	9	18	4	4	0	0	0	1	0	0	0	0	0	9	1	0	1	5	0	0	8	0	7	43	2	8	25	0		
10	9	18	4	5	3	0	0	1	0	0	49	0	0	20	1	0	0	2	0	0	16	0	37	4	7	57.1	0	10	9	18	4	5	3	0	0	1	0	0	49	0	0	20	1	0	0	2	0	0	16	0	37	4	7	57.1	0				
10	9	21	4	0	21	4	26	6	13	14	196	33	241	57	21	7	21	3	10	10	212	63	170	19	89	109	81.7	0	10	9	21	4	0	21	4	26	6	13	14	196	33	241	57	21	7	21	3	10	10	212	63	170	19	89	109	81.7	0		
10	9	21	4	1	1	0	2	0	0	0	9	0	22	0	5	1	2	0	0	0	49	6	20	0	10	11	90.9	0	10	9	21	4	1	1	0	0	0	9	0	22	0	5	1	2	0	0	0	49	6	20	0	10	11	90.9	0				
10	9	21	4	2	2	0	1	0	0	0	46	0	8	0	2	2	4	0	0	0	18	18	41	0	9	11	81.8	0	10	9	21	4	2	2	0	1	0	0	46	0	8	0	2	2	4	0	0	0	18	18	41	0	9	11	81.8	0			
10	9	21	4	3	5	0	1	2	0	0	57	0	16	26	1	0	0	2	0	0	7	0	0	28	7	11	63.6	0	10	9	21	4	3	5	0	1	2	0	0	57	0	16	26	1	0	0	2	0	0	7	0	0	28	7	11	63.6	0		
10	9	21	4	4	3	0	2	1	0	0	28	0	24	13	2	0	1	2	0	0	21	0	24	28	8	11	72.7	0	10	9	21	4	4	3	0	2	1	0	0	28	0	24	13	2	0	1	2	0	0	21	0	24	28	8	11	72.7	0		
10	9	21	4	5	3	0	0	2	0	0	21	0	0	13	2	2	0	1	0	0	85	164	0	9	5	10	50	0	10	9	21	4	5	3	0	0	2	0	0	21	0	0	13	2	2	0	1	0	0	85	164	0	9	5	10	50	0		
10	9	24	4	0	13	3	11	2	8	4	108	31	101	27	6	2	20	3	6	4	54	17	182	25	50	60	83.3	0	10	9	24																												

Matching to Sample, Blue versus Yellow, MTS 0 s delay Probe sessions (Level 1)

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Elroy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Lev=test level L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative latency, Tcor=total number of corrects, T=trial count %=Percent correct, Ab=number of aborts

Pos	Year	Day	Month	Lev	Blue										Yellow										Tcor	T	%	Ab	
					Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLinc	LatRinc	Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLinc	LatRinc									
5	9	10	2	4	1	1	1	0	0	0	47	10	63	31	2	3	1	2	0	0	63	88	11	97	5	12	41.7	0	
5	9	10	2	5	0	1	5	1	0	0	28	58	18	0	1	3	1	0	0	0	9	14	70	26	8	12	65.7	0	
5	9	12	2	0	4	0	0	0	0	0	43	20	362	0	4	3	30	1	19	19	222	32	384	8	128	135	95.6	0	
5	9	12	2	1	4	0	0	0	0	0	0	0	0	0	4	6	0	0	0	0	47	0	76	0	14	14	100	0	
5	9	12	2	2	3	0	2	0	0	0	28	0	15	0	6	2	1	0	0	0	61	21	10	0	12	14	85.7	0	
5	9	12	2	3	2	2	2	0	0	0	32	35	17	0	1	1	1	5	0	0	36	11	37	70	6	14	42.9	0	
5	9	12	2	4	2	2	0	1	0	0	48	44	0	23	1	5	1	2	0	0	18	57	14	66	4	14	28.6	0	
5	9	12	2	5	4	1	1	0	0	0	284	6	7	0	0	3	4	0	0	0	0	36	183	0	9	13	69.2	0	
6	9	17	2	0	7	4	13	1	1	4	81	58	164	7	15	0	9	2	5	9	126	0	110	24	44	51	83.3	0	
6	9	17	2	1	0	2	1	0	0	0	0	20	17	0	1	0	0	1	0	0	9	0	0	7	2	5	40	0	
6	9	17	2	2	1	0	2	0	0	0	7	0	27	0	2	0	0	1	0	0	13	0	0	7	5	6	83.3	0	
6	9	17	2	3	0	0	1	0	0	0	0	0	11	0	2	0	1	1	0	0	25	0	12	13	4	5	80	0	
6	9	17	2	4	0	1	0	1	0	0	0	10	0	12	0	0	1	1	0	0	0	0	11	12	1	4	25	0	
6	9	17	2	5	0	2	1	0	0	0	0	24	14	0	0	1	2	0	0	0	0	11	28	0	3	6	50	0	
6	9	19	2	0	9	1	7	0	4	6	88	15	96	0	14	1	6	0	6	5	142	16	79	0	36	38	94.7	0	
6	9	19	2	1	1	1	1	0	0	0	11	17	12	0	1	0	0	0	0	0	9	0	0	3	3	4	75	0	
6	9	19	2	2	0	0	1	1	0	0	0	0	13	9	0	0	2	0	0	0	0	0	37	0	3	4	75	0	
6	9	19	2	3	2	0	2	0	0	0	24	0	22	0	0	0	0	0	0	0	0	0	4	4	4	100	0		
6	9	19	2	4	0	1	0	0	0	0	0	13	0	0	1	0	2	0	0	0	11	0	27	0	3	4	75	0	
6	9	19	2	5	0	3	0	0	0	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
6	9	23	2	0	13	9	18	1	8	11	146	120	234	9	29	0	15	1	10	12	264	0	203	15	75	86	87.2	0	
6	9	23	2	1	2	1	1	1	0	0	22	17	14	11	0	0	3	0	0	0	0	0	33	0	6	8	75	0	
6	9	23	2	2	1	2	1	0	0	0	13	30	11	0	2	1	2	0	0	0	20	14	26	0	6	9	66.7	0	
6	9	23	2	3	0	4	1	0	0	0	0	60	14	0	0	3	0	0	0	0	0	101	0	1	8	12.5	0		
6	9	23	2	4	0	3	2	0	0	0	0	581	31	0	0	2	2	0	0	0	0	83	53	0	4	9	44.4	0	
6	9	23	2	5	0	3	0	1	0	0	0	37	0	39	1	0	3	0	0	0	20	0	54	0	4	8	50	0	
6	9	25	2	0	18	3	13	5	9	5	179	42	171	40	18	5	19	2	9	8	173	73	251	25	68	83	81.9	0	
6	9	25	2	1	1	0	3	0	0	0	9	0	40	0	2	1	2	0	0	0	0	23	17	25	0	8	9	88.9	0
6	9	25	2	2	5	0	1	1	0	0	53	0	12	7	1	1	0	0	0	0	9	12	0	0	7	9	77.8	0	
6	9	25	2	3	0	2	3	0	0	0	0	29	36	0	1	1	2	0	0	0	13	17	27	0	6	9	66.7	0	
6	9	25	2	4	0	2	1	1	0	0	0	25	11	21	0	2	1	1	0	0	0	5609	16	9	2	8	25	0	
6	9	25	2	5	0	2	2	0	0	0	0	25	29	0	0	2	2	0	0	0	0	39	25	0	4	8	50	0	
6	9	27	2	0	10	1	11	1	4	8	102	12	154	10	6	2	11	1	4	8	63	27	150	7	38	43	84.0	0	
6	9	27	2	1	2	0	1	0	0	0	28	0	19	0	1	0	0	0	0	0	12	0	0	0	4	4	100	0	
6	9	27	2	2	1	0	2	0	0	0	12	0	27	0	0	0	1	0	0	0	0	17	0	4	4	100	0		
6	9	27	2	3	1	0	1	0	0	0	68	0	14	0	1	1	0	0	0	0	10	14	0	0	3	4	75	0	
6	9	27	2	4	0	0	1	0	0	0	0	14	0	0	0	3	0	0	0	0	0	40	0	0	1	4	25	0	
6	9	27	2	5	0	1	0	0	0	0	0	11	0	0	0	3	1	0	0	0	0	81	14	0	1	5	20	0	
6	9	3	3	0	7	0	12	3	4	5	82	0	193	31	6	0	11	1	5	5	59	0	195	7	36	40	90	0	
6	9	3	3	1	1	0	0	0	0	0	11	0	0	0	1	0	1	1	0	0	10	0	14	9	3	4	75	0	
6	9	3	3	2	1	0	0	0	0	0	10	0	0	0	1	1	0	0	0	0	12	11	11	0	3	4	75	0	
6	9	3	3	3	0	1	0	0	0	0	0	14	0	0	0	0	3	0	0	0	0	52	0	3	4	75	0		
6	9	3	3	4	1	1	1	0	0	0	9	11	13	0	0	0	1	0	0	0	0	11	0	3	4	75	0		
6	9	3	3	5	0	2	0	0	0	0	0	29	0	0	0	1	1	0	0	0	18	25	0	1	4	25	0		
6	9	5	3	0	25	0	16	1	7	7	237	0	199	8	16	5	18	3	8	7	146	52	211	28	75	84	89.3	0	
6	9	5	3	1	0	0	3	0	0	0	0	33	0	3	0	2	0	0	0	0	21	0	26	0	8	8	100	0	
6	9	5	3	2	1	0	3	0	0	0	8	0	26	0	0	0	4	0	0	0	0	43	0	8	8	100	0		
6	9	5	3	3	0	3	4	0	0	0	0	30	41	0	0	1	0	1	0	0	10	0	13	4	9	44.4	0		
6	9	5	3	4	0	2	2	0	0	0	0	21	22	0	0	2	2	0	0	0	20	20	0	4	8	50	0		
6	9	5	3	5	0	1	2	0	0	0	0	10	21	0	0	2	3	0	0	0	32	30	0	5	8	62.5	0		
6	9	9	3	0	15	2	18	1	8	8	154	100	276	8	13	1	15	0	8	8	117	11	281	0	61	65	93.8	0	
6	9	9	3	1	2	0	0	0	0	0	15	0	0	0	2	0	2	0	0	0	20	0	31	0	6	6	100	0	
6	9	9	3	2	0	0	1	0	0	0	0	13	0	0	1	3	2	0	0	0	0	15	47	18	4	7	57.1	0	
6	9	9	3	3	0	3	0	0	0	0	0	132	0	0	0	1	1	0	0	0	13	12	70	1	6	16.7	0		
6	9	9	3	4	0	3	0	0	0	0	0	45	0	0	1	2	0	0	0	0	0	14	26	0	2	6	33.3	0	
6	9	9	3	5	0	2	1	0	0	0	0	27	10	0	0	1	2	0	0	0	0	14	37	0	3	6	50	0	
9	9	29	1	0	13	4	22	2	10	12	173	63	310	18	20	2	21	1	12	12	203	23	320	14	61	90	90	0	
9	9	29	1	1	2	0	3	0	0	0	20	0	45	0	1	0	3	0	0	0	9	0	43	0	9	9	100	0	
9	9	29	1	2	3	0	0	2	0	0	21	0	0	17	1	0	1	2	0	0	8	0	8	14	5	9	55.6	0	
9	9	29	1	3	3	0	0	2	0	0	18	0	0	31	2	0	0	2	0	0	11	0	0	18	5	9	55.6	0	
9	9	29	1	4	1	0	0	1	0	0	7	0	0	5	0	0	3	0	0	0	41	0	0	24	6	10	60	0	
9	9	29	1	5	4	0	0	0	0	0	31	0	0	0	3	0	0	2	0	0	27	0	0	19	7	9	77.8	0	
9	9	2	2	0	26	5	20	2	12	11	30																		

Matching to Sample, Blue versus Yellow, MTS 0 s delay Probe sessions (Level 2)

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Elroy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Lev=test level L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative latency, Tcor=total number of corrects, T=trial count %=Percent correct, Ab=number of aborts

Pos	Year	Day	Month	Lev	Blue										Yellow										Tcor	T	%	Ab			
					Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLcor	LatLinc	LatRcor	LatRinc	Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLcor	LatLinc	LatRcor	LatRinc							
9	9	5	3	4	1	0	0	2	0	0	7	0	0	0	21	1	0	0	0	0	0	0	0	0	0	0	2	5	40	0	
9	9	5	3	5	1	0	0	1	0	0	8	0	0	7	1	0	0	1	0	0	0	0	0	0	0	0	7	2	4	50	0
9	9	7	3	0	19	1	27	2	12	17	206	15	431	17	21	1	17	2	7	12	206	18	307	27	84	90	83.3	0	0	0	
9	9	7	3	1	2	1	1	0	0	0	24	14	13	0	1	0	3	0	0	0	13	0	53	0	7	9	87.5	0	0	0	
9	9	7	3	2	2	0	1	0	0	0	18	0	14	0	4	0	1	0	0	0	55	0	14	0	8	8	100	0	0	0	
9	9	7	3	3	1	1	2	3	0	0	14	17	34	36	0	0	1	0	0	0	0	0	13	0	4	8	50	0	0	0	
9	9	7	3	4	1	0	1	1	0	0	12	0	19	8	4	0	0	2	0	0	23	0	0	12	6	9	66.7	0	0	0	
9	9	7	3	5	1	0	0	0	0	0	6	0	0	0	3	0	0	4	0	0	0	0	0	22	4	8	50	0	0	0	
9	9	10	3	0	17	2	31	5	8	14	189	36	531	39	30	1	28	3	13	20	289	14	562	51	106	117	90.6	0	0	0	
9	9	10	3	1	2	0	4	1	0	0	18	0	57	15	3	0	1	0	0	0	27	0	15	0	10	11	90.9	0	0	0	
9	9	10	3	2	1	0	2	0	0	0	11	0	34	0	7	0	1	0	0	0	72	0	19	0	11	11	100	0	0	0	
9	9	10	3	3	3	1	2	0	0	0	36	17	34	0	1	0	2	2	0	0	12	0	41	26	8	11	72.7	0	0	0	
9	9	10	3	4	5	0	0	2	0	0	34	0	0	15	0	0	4	0	0	0	0	0	27	5	11	45.5	0	0	0		
9	9	10	3	5	5	0	2	1	0	0	29	0	67	6	0	1	0	2	0	0	0	62	0	13	7	11	63.6	0	0	0	
9	9	12	3	0	21	0	35	1	12	20	193	0	546	7	29	0	20	8	5	13	272	0	370	121	105	114	92.1	0	0	0	
9	9	12	3	1	5	0	2	0	0	0	50	0	31	0	2	0	0	3	0	0	26	0	56	9	12	75	0	0	0		
9	9	12	3	2	4	0	2	1	0	0	37	0	29	12	4	0	0	1	0	0	37	0	20	10	12	83.3	0	0	0		
9	9	12	3	3	2	0	3	0	0	0	17	0	43	0	2	0	2	3	0	0	13	0	26	59	9	12	75	0	0	0	
9	9	12	3	4	5	0	1	3	0	0	39	0	81	17	0	0	0	3	0	0	0	0	34	6	12	50	0	0	0		
9	9	12	3	5	2	0	0	0	0	0	56	0	0	0	6	0	0	3	0	0	175	0	0	17	8	11	72.7	0	0	0	
9	9	14	3	0	11	0	17	2	8	8	111	0	284	25	14	3	13	0	9	8	170	47	239	0	55	60	91.7	0	0	0	
9	9	14	3	1	2	0	0	0	0	0	18	0	0	1	0	2	1	0	0	0	16	0	39	22	5	6	83.3	0	0	0	
9	9	14	3	2	1	0	1	0	0	0	13	0	14	0	0	0	2	1	0	0	0	0	30	7	4	5	80	0	0	0	
9	9	14	3	3	2	0	3	0	0	0	18	0	39	0	1	0	0	0	0	0	14	0	0	0	6	6	100	0	0	0	
9	9	14	3	4	1	0	0	1	0	0	35	0	0	649	0	0	0	3	0	0	0	0	22	1	5	20	0	0	0		
9	9	14	3	5	2	0	0	1	0	0	14	0	0	7	1	0	1	1	0	0	8	0	20	15	4	6	66.7	0	0	0	
10	9	25	5	0	4	0	2	1	2	25	0	33	12	3	3	2	2	3	0	24	25	24	12	15	22	66.7	0	0	0		
10	9	25	5	1	1	0	0	1	0	0	7	0	0	6	0	0	0	0	0	0	0	0	0	0	1	2	50	0	0	0	
10	9	25	5	2	0	0	2	0	0	0	0	0	24	0	0	1	0	0	0	0	0	0	7	0	3	100	0	0	0		
10	9	25	5	3	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	7	11	0	1	2	50	0	0	0	
10	9	25	5	4	0	0	1	0	0	0	0	0	9	0	0	0	1	0	0	0	0	0	8	0	2	2	100	0	0	0	
10	9	25	5	5	1	0	0	1	0	0	32	0	0	9	0	0	0	0	0	0	0	0	0	0	1	2	50	0	0	0	
10	9	10	6	0	12	2	13	2	7	9	85	16	122	13	24	2	13	3	8	12	196	48	118	25	62	71	87.3	0	0	0	
10	9	10	6	1	2	1	1	0	0	0	13	9	9	0	1	0	3	0	0	0	10	0	24	0	7	8	87.5	0	0	0	
10	9	10	6	2	2	0	3	0	0	0	12	0	26	0	2	0	1	0	0	0	15	0	8	0	8	8	100	0	0	0	
10	9	10	6	3	1	0	1	4	0	0	7	0	9	1114	0	0	1	0	0	0	0	0	9	0	3	7	42.9	0	0	0	
10	9	10	6	4	1	0	1	2	0	0	7	0	8	16	1	1	1	0	0	0	7	11	13	0	4	7	57.1	0	0	0	
10	9	10	6	5	0	2	0	3	0	0	0	9	0	42	0	0	2	0	0	0	0	0	0	17	0	7	0	0	0		
10	9	15	6	0	6	7	9	3	4	3	47	52	86	20	15	2	16	1	8	8	130	9	108	6	46	59	78	0	0	0	
10	9	15	6	1	0	2	0	2	0	0	0	13	0	15	0	0	2	0	0	0	0	0	13	0	2	6	33.3	0	0	0	
10	9	15	6	2	3	0	0	0	0	0	17	0	0	0	2	0	1	0	0	0	17	0	7	0	6	6	100	0	0	0	
10	9	15	6	3	1	1	1	2	0	0	6	3	8	12	0	0	1	0	0	0	0	0	9	0	3	6	50	0	0	0	
10	9	15	6	4	1	0	1	1	0	0	5	0	10	6	0	1	0	2	0	0	0	6	0	13	2	6	33.3	0	0	0	
10	9	15	6	5	1	0	2	1	0	0	7	0	13	7	1	0	0	0	0	0	98	0	0	0	4	5	80	0	0	0	
10	9	18	6	0	3	1	0	3	1	0	22	5	0	19	2	0	2	1	2	1	12	0	13	7	7	12	58.3	0	0	0	
10	9	18	6	1	0	1	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0		
10	9	18	6	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	6	6	1	2	50	0	0	0	
10	9	18	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	12	0	2	0	0	0		
10	9	18	6	4	1	0	0	0	0	0	8	0	0	0	0	0	1	0	0	0	0	0	9	0	2	2	100	0	0	0	
10	9	18	6	5	0	1	0	0	0	0	0	15	0	0	1	0	0	0	0	0	9	0	0	0	1	2	50	0	0	0	
10	9	24	6	0	19	5	19	5	13	11	128	34	152	30	17	4	23	2	9	8	139	25	167	17	76	94	83	0	0		

Matching to Sample, Blue versus Yellow, MTS 0 s delay Probe sessions (Level 3)

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Elroy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Lev=test level L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative latency, Tcor=total number of corrects, T=trial count %=Percent correct, Ab=number of aborts

Pos	Year	Day	Month	Lev	Blue														Yellow														Tcor	T	%	Ab																					
					Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLinc	LatRinc	Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLinc	LatRinc	Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLinc	LatRinc																													
1	9	14	5	1	35	5	35	6	19	16	479	37	306	58	35	6	35	3	17	13	434	49	300	32	140	160	87.5	0	9	9	26	3	0	20	1	19	5	14	7	182	10	234	47	17	1	25	0	14	10	154	14	355	0	81	88	92	0
1	9	14	5	1	6	0	2	0	0	0	51	0	14	0	3	0	4	1	0	0	39	6	34	0	14	16	87.5	0	9	9	26	3	1	2	0	3	0	0	0	20	0	35	0	2	0	2	0	0	0	16	0	27	0	9	9	100	0
1	9	14	5	2	2	1	4	0	0	0	23	14	36	0	3	1	5	0	0	0	66	7	17	0	14	17	82.4	0	9	9	26	3	2	1	0	1	1	0	0	9	0	11	7	5	0	1	0	0	0	51	0	13	0	8	9	99	0
1	9	14	5	3	1	1	6	1	0	0	13	10	64	14	5	1	2	0	0	0	66	7	17	0	11	16	88.0	0	9	9	26	3	2	2	0	1	2	0	0	23	0	9	19	1	0	3	0	0	0	9	0	35	0	7	9	78	0
1	9	14	5	4	4	3	4	0	0	0	66	38	38	0	2	2	1	0	0	0	35	14	10	0	11	16	88.0	0	9	9	26	3	3	2	0	1	2	0	0	25	0	17	35	1	0	3	0	0	0	9	0	30	0	8	9	89	0
1	9	14	5	5	0	1	3	0	0	0	0	9	373	0	1	6	5	0	0	0	24	64	131	0	9	16	56.3	0	9	9	26	3	4	3	0	1	1	0	0	23	0	17	35	1	0	3	0	0	0	9	0	30	0	8	9	89	0
1	9	18	5	0	35	1	47	4	26	25	382	7	445	31	32	4	38	8	19	19	366	31	345	76	152	169	89.9	0	9	9	26	3	5	1	0	0	3	0	0	1095	0	0	160	1	0	0	3	0	0	0	6	0	16	2	8	25	0
1	9	18	5	1	7	0	1	3	0	0	67	0	7	45	3	0	3	0	0	0	31	0	18	0	14	17	82.4	0	9	9	28	3	0	31	0	31	9	19	16	306	0	355	84	26	7	33	2	16	15	247	84	401	21	121	139	87	0
1	9	18	5	2	3	0	6	0	0	0	22	0	42	0	2	1	4	1	0	0	18	7	28	9	15	17	88.2	0	9	9	28	3	1	1	0	4	0	0	0	10	0	62	0	3	1	5	0	0	0	31	8	76	0	13	14	93	0
1	9	18	5	3	3	0	2	0	0	0	28	0	21	0	4	0	7	0	0	0	37	0	71	0	16	16	100	0	9	9	28	3	2	2	0	4	0	0	0	18	0	54	0	4	0	2	1	0	0	37	0	32	8	12	13	92	0
1	9	18	5	4	1	0	4	1	0	0	14	0	61	13	3	0	3	5	0	0	39	0	26	64	11	17	64.7	0	9	9	28	3	3	1	0	4	0	0	0	8	0	52	0	5	0	4	0	0	0	49	0	50	0	14	14	100	0
1	9	18	5	5	4	3	2	0	0	0	13	70	24	0	0	3	2	3	0	0	0	33	25	145	8	17	47.1	0	9	9	28	3	4	4	0	5	1	0	0	36	0	62	5	0	1	2	1	0	0	10	26	7	11	14	79	0	
1	9	20	5	0	20	0	24	3	14	10	225	0	216	41	20	1	30	1	14	11	286	8	227	8	94	99	94.9	0	9	9	28	3	5	4	0	1	1	0	0	28	0	22	6	4	0	0	3	0	0	27	0	17	9	13	69	0	
1	9	20	5	1	1	0	3	0	0	0	10	0	31	3	2	0	2	0	0	0	39	0	14	0	8	10	80	0	9	9	31	3	0	35	1	22	1	17	10	322	10	272	11	25	7	30	2	18	10	224	89	357	18	112	123	91	0
1	9	20	5	2	2	0	3	0	0	0	19	0	29	0	3	0	2	0	0	0	34	0	12	0	10	10	100	0	9	9	31	3	1	1	0	7	0	0	0	10	0	100	0	3	0	1	0	0	0	32	0	15	0	12	10	100	0
1	9	20	5	3	2	0	4	0	0	0	42	0	33	0	2	0	2	0	0	0	32	0	14	0	10	10	100	0	9	9	31	3	2	2	0	3	0	0	0	18	0	39	0	0	3	4	1	0	0	0	34	61	10	9	13	69	0
1	9	20	5	4	1	0	3	0	0	0	9	0	35	0	0	0	3	2	0	0	0	34	31	7	9	77.8	0	9	9	31	3	3	6	0	0	0	0	0	55	0	0	0	2	2	3	0	0	0	14	27	35	0	11	13	85	0	
1	9	20	5	5	0	1	5	0	0	0	0	10	55	0	0	2	2	0	0	0	0	28	38	0	7	10	70	0	9	9	31	3	4	4	1	1	1	0	0	50	15	16	8	1	2	1	1	0	0	11	22	14	9	7	12	58	0
1	9	22	5	0	40	1	35	1	22	18	561	6	309	11	40	5	39	7	22	19	595	40	304	69	154	168	91.7	0	9	9	31	3	5	5	1	1	1	0	0	57	9	109	6	2	0	0	2	0	0	211	0	0	14	8	12	67	0
1	9	22	5	1	4	0	3	0	0	0	53	0	30	62	4	0	2	0	0	0	43	0	19	0	13	16	81.3	0	9	9	2	4	0	26	0	28	9	14	11	226	0	368	91	23	2	36	4	15	15	217	21	478	29	113	128	88	0
1	9	22	5	2	3	0	8	0	0	0	45	0	75	0	3	1	1	0	0	0	41	6	7	0	15	16	93.8	0	9	9	2	4	1	2	0	0	1	0	0	21	0	0	18	4	0	4	2	0	0	34	0	52	38	10	13	77	0
1	9	22	5	3	5	0	6	0	0	0	67	0	50	0	2	0	3	0	0	0	25	0	29	0	16	16	100	0	9	9	2	4	2	5	0	2	0	0	0	44	0	28	0	3	0	3	0	0	0	28	0	40	0	13	13	100	0
1	9	22	5	4	1	0	7	0	0	0	16	0	78	0	3	0	3	2	0	0	51	0	25	25	14	16	87.5	0	9	9	2	4	3	2	0	4	0	0	0	15	0	53	0	5	0	2	0	0	0	37	0	30	0	13	13	100	0
1	9	22	5	5	0	4	3	0	0	0	0	203	27	0	0	7	2	0	0	0	0	79	244	0	5	16	31.3	0	9	9	2	4	4	4	0	3	0	0	0	34	0	36	0	1	1	3	1	0	0	14	8	41	8	11	13	85	0
2	9	27	4	0	33	1	26	5	12	12	395	13	306	80	25	5	30	2	14	13	311	57	358	38	114	127	89.8	0	9	9	2	4	5	7	0	1	2	0	0	75	0	17	677	2	0	0	1	0	0	0	38	0	6	10	13	77	0
2	9	27	4	1	0	0	3	4	0	0	0	0	34	4	0	1	1	0	0	0	33	0	14	9	7	12	58.3	0	10	9	21	7	0	14	2	16	0	8	9	119	20	138	0	10	3	15	5	3	5	85	25	108	37	55	65	85	0
2	9	27	4	2	3	1	2	0	0	0	35	10	26	0	4	0	3	0	0	0	41	0	29	0	12	13	92.3	0	10	9	21	7	1	0	3	0	1	0	0	0	21	0	8	1	2	0	0	0	13	13	0	0	1	7	14	0	
2	9	27	4	3	2	0	3	1	0	0	28	0	29	17	5	0	2	0	0	0	61	0	20	0	12	13	92.3	0	10	9	21	7	2	3	0	0	0	0	0	20	0	0	0	0	1	3	0	0	0	0	8	22	0	6	7	86	0
2	9	27	4	4	3	0	2	0	0	0	35	0	24	2	2	0	3	1	0	0	15	0	32	6	10	13	76.9	0	10	9	21	7	3	2	0	3	0	0	0	13	0	23	0	0	1	0	1	0	0	10	0	6	7	7	100	0	
2	9	27	4	5	1	0	0	3	0	0	12	0	0	32	4	0	1	3	0	0	43	0	94	30	5	12	50	0	10	9	21	7	4	2	0	1	0	0	0	39	0	11	0	2	1	0	1	0	0	15	10	0	7	5	7	71	0
2	9	29	4	0	38	0	35	1	18	15	439	0	397	10	34	3	33	3	19	15	415	26	370	31	158	145	95.2	0	10	9	21	7	5	0	2	2	1	0	0	0	20	17	34	1	0	1	0	0	0	8	0	8	0	4	7	57	0
2	9	29	4	1																																																					

Matching to Sample, Blue versus Yellow, MTS 0 s delay Probe sessions (Level 4)

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Elroy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Lev=test level L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative latency, Tcor=total number of corrects, T=trial count %=Percent correct, Ab=number of aborts

Pos	Year	Day	Month	Lev	Blue										Yellow										Tcor	T	%	Ab	
					Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLcor	LatLinc	LatRcor	LatRinc	Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLcor	LatLinc	LatRcor	LatRinc					
1	9	15	6	5	4	1	7	0	0	0	0	55	20	26	14	1	2	3	2	0	0	12	33	31	28	11	18	61.1	0
1	9	17	6	0	32	8	39	3	19	20	372	64	333	40	38	4	39	19	15	16	491	31	305	185	148	172	36	0	
1	9	17	6	1	2	4	4	0	0	0	33	35	33	0	2	2	4	0	0	0	32	35	31	0	12	16	66.7	0	
1	9	17	6	2	0	3	6	0	0	0	0	26	47	0	4	0	3	1	0	0	55	0	22	10	13	17	76.5	0	
1	9	17	6	3	7	0	3	0	0	0	81	0	26	0	6	0	2	0	0	0	84	0	13	0	18	18	100	0	
1	9	17	6	4	4	1	5	0	0	0	39	8	46	0	1	0	6	1	0	0	11	0	39	10	16	18	88.9	0	
1	9	17	6	5	3	1	4	1	0	0	36	13	32	14	2	4	0	3	0	0	24	43	0	38	9	18	50	0	
1	9	19	6	0	42	8	38	3	21	17	533	58	322	44	37	5	41	4	22	20	460	35	306	37	158	178	88.8	0	
1	9	19	6	1	2	3	2	0	0	0	107	33	75	0	1	4	6	0	0	0	12	105	70	0	11	18	61.1	0	
1	9	19	6	2	1	3	5	1	0	0	12	28	40	23	2	1	4	1	0	0	20	17	24	12	12	18	66.7	0	
1	9	19	6	3	4	1	2	1	0	0	41	6	21	11	6	1	1	1	0	0	80	5	7	12	13	17	76.5	0	
1	9	19	6	4	5	0	3	1	0	0	59	0	23	10	2	1	4	1	0	0	35	7	29	11	14	17	82.4	0	
1	9	19	6	5	2	2	2	1	0	0	22	25	16	15	2	1	6	1	0	0	48	7	54	15	12	17	70.6	0	
2	9	21	5	0	41	4	33	3	19	21	530	44	349	26	39	4	36	2	17	19	559	42	376	14	149	162	92	0	
2	9	21	5	1	6	0	2	2	0	0	74	0	30	19	4	0	2	1	0	0	28	0	16	7	14	17	82.4	0	
2	9	21	5	2	2	0	7	0	0	0	18	0	71	0	5	0	2	1	0	0	48	0	21	12	16	17	94.1	0	
2	9	21	5	3	4	0	1	0	0	0	44	0	8	0	5	0	4	3	0	0	46	0	38	33	14	17	82.4	0	
2	9	21	5	4	3	0	6	1	0	0	31	0	61	9	5	0	2	0	0	0	47	0	22	0	16	17	94.1	0	
2	9	21	5	5	2	1	2	4	0	0	33	15	26	64	4	0	3	1	0	0	39	0	35	17	11	17	64.7	0	
2	9	25	5	0	38	3	34	8	21	19	572	31	375	124	30	4	32	11	17	15	325	45	359	165	134	160	83.8	0	
2	9	25	5	1	4	0	0	3	0	0	42	0	0	32	2	0	5	0	0	0	19	53	8	16	16	50	0		
2	9	25	5	2	2	0	4	0	0	0	25	0	44	0	7	0	1	2	0	0	83	0	10	26	14	16	87.5	0	
2	9	25	5	3	2	0	7	0	0	0	22	0	65	0	0	5	2	0	0	0	0	56	33	14	16	87.5	0		
2	9	25	5	4	3	0	4	0	0	0	47	0	42	0	1	1	4	3	0	0	19	8	51	38	12	16	75	0	
2	9	25	5	5	4	0	2	2	0	0	68	0	26	28	5	0	1	2	0	0	53	0	10	30	12	16	75	0	
2	9	4	6	0	23	6	28	3	14	15	356	62	264	59	27	1	24	8	15	15	295	13	269	127	102	120	85	0	
2	9	4	6	1	3	0	0	0	0	0	30	0	0	0	3	0	3	3	0	0	26	0	37	44	9	12	75	0	
2	9	4	6	2	1	0	2	0	0	0	10	0	17	0	5	0	0	3	0	0	67	0	0	35	9	12	75	0	
2	9	4	6	3	5	0	2	0	0	0	61	0	18	0	1	0	3	1	0	0	9	0	30	17	11	12	91.7	0	
2	9	4	6	4	3	0	3	0	0	0	49	0	30	0	2	0	0	4	0	0	21	0	0	44	8	12	66.7	0	
2	9	4	6	5	7	0	2	2	0	0	101	0	16	22	1	0	0	1	0	0	17	0	0	23	10	13	76.9	0	
2	9	8	6	0	24	8	35	1	16	19	361	71	338	14	38	3	30	4	15	17	415	33	335	48	127	143	88.8	0	
2	9	8	6	1	4	0	0	2	0	0	45	0	0	38	4	1	0	3	0	0	109	12	0	53	8	14	57.1	0	
2	9	8	6	2	0	1	3	0	0	0	0	9	25	0	4	1	0	5	0	0	43	13	0	65	7	14	50	0	
2	9	8	6	3	3	0	6	0	0	0	46	0	53	0	4	0	2	0	0	0	37	0	15	0	15	15	100	0	
2	9	8	6	4	3	0	6	1	0	0	48	0	54	14	3	0	2	0	0	0	31	0	26	0	14	15	93.3	0	
2	9	8	6	5	6	0	5	0	0	0	87	0	49	0	1	0	1	2	0	0	14	0	13	37	13	15	86.7	0	
5	9	3	4	0	34	2	33	1	15	16	404	13	339	7	27	8	39	3	14	15	260	105	421	25	133	147	90.5	0	
5	9	3	4	1	1	1	4	0	0	0	13	8	36	0	2	2	3	1	0	0	14	31	32	9	10	14	71.4	0	
5	9	3	4	2	5	0	3	0	0	0	64	0	26	0	5	0	1	0	0	0	41	0	10	0	14	14	100	0	
5	9	3	4	3	3	0	6	0	0	0	47	0	69	0	2	1	3	0	0	0	24	8	29	0	14	15	93.3	0	
5	9	3	4	4	2	1	4	1	0	0	15	7	34	28	2	2	0	2	0	0	52	17	0	91	8	14	57.1	0	
5	9	3	4	5	2	2	4	1	0	0	26	13	29	13	1	3	1	1	0	0	6	21	7	22	8	15	53.3	0	
5	9	5	4	0	32	2	26	4	20	13	361	33	264	36	21	11	36	3	22	14	227	105	396	23	115	135	85.2	0	
5	9	5	4	1	0	3	7	0	0	0	0	23	64	0	1	0	2	1	0	0	14	0	14	11	10	14	71.4	0	
5	9	5	4	2	1	2	7	0	0	0	20	16	71	0	2	0	0	1	0	0	16	0	0	8	10	13	76.9	0	
5	9	5	4	3	2	0	4	0	0	0	22	0	34	0	4	0	4	0	0	0	39	0	44	0	14	14	100	0	
5	9	5	4	4	1	4	2	0	0	0	8	74	20	0	1	3	2	0	0	0	10	59	22	0	6	13	46.2	0	
5	9	5	4	5	2	2	1	0	0	0	25	32	6	0	0	4	3	2	0	0	33	279	35	6	14	42.9	0		
5	9	7	4	0	27	0	39	2	17	18	352	0	448	31	32	3	33	1	17	16	323	30	397	6	131	137	95.6	0	
5	9	7	4	1	1	0	4	0	0	0	30	9	0	53	0	4	1	2	2	0	43	6	37	15	11	14	78.6	0	
5	9	7	4	2	4	0	3	0	0	0	61	0	32	0	3	0	3	1	0	0	28	0	40	10	13	14	92.9	0	
5	9	7	4	3	4	0	2	0	0	0	52	0	30	0	3	1	4	0	0	0	31	18	42	0	13	14	92.9</		

Matching to Sample, Blue versus Yellow, MTS 0 s delay Probe sessions (Level 5)

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Erloy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Lev=test level L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative latency, Tcor=total number of corrects, T=trial count %=Percent correct, Ab=number of aborts

Pos	Year	Day	Month	Lev	Blue										Yellow										Tcor	T	%	Ab	
					Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLinc	LatRinc	LatRcor	LatRinc	Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLinc	LatRinc	LatRcor	LatRinc					
1	9	14	5	0	35	5	35	6	19	16	479	37	306	58	35	6	35	3	17	13	434	49	300	32	140	160	87.5	0	
1	9	14	5	1	6	0	2	0	0	0	51	0	14	0	3	0	4	1	0	0	50	0	27	15	15	16	93.8	0	
1	9	14	5	2	2	1	4	0	0	0	23	14	36	0	3	1	5	0	0	0	39	6	34	0	14	16	87.5	0	
1	9	14	5	3	1	1	6	1	0	0	13	10	64	14	5	1	2	0	0	0	66	7	17	0	14	17	82.4	0	
1	9	14	5	4	4	3	4	0	0	0	66	38	38	0	2	2	1	0	0	0	35	14	10	0	11	16	68.8	0	
1	9	14	5	5	0	1	3	0	0	0	0	9	373	0	1	6	5	0	0	0	24	64	131	0	9	16	56.3	0	
1	9	18	5	0	35	1	47	4	26	25	362	7	445	31	32	4	38	8	19	19	366	31	345	76	152	169	89.9	0	
1	9	18	5	1	7	0	1	3	0	0	67	0	7	45	3	0	3	0	0	0	31	0	18	0	14	17	82.4	0	
1	9	18	5	2	3	0	6	0	0	0	22	0	42	0	2	1	4	1	0	0	18	7	28	9	15	17	88.2	0	
1	9	18	5	3	3	0	2	0	0	0	28	0	21	0	4	0	7	0	0	0	37	0	71	0	16	16	100	0	
1	9	18	5	4	1	0	4	1	0	0	14	0	61	13	3	0	3	5	0	0	39	0	26	64	11	17	64.7	0	
1	9	18	5	5	4	3	2	0	0	0	63	70	24	0	0	3	2	3	0	0	0	33	25	145	8	17	47.1	0	
1	9	20	5	0	20	0	24	3	14	10	225	0	216	41	20	1	30	1	14	11	286	8	227	8	94	99	94.9	0	
1	9	20	5	1	1	0	3	0	0	0	10	0	31	31	2	0	2	0	0	0	39	0	14	0	8	10	80	0	
1	9	20	5	2	2	0	3	0	0	0	19	0	29	0	3	0	2	0	0	0	34	0	12	0	10	10	100	0	
1	9	20	5	3	2	0	4	0	0	0	42	0	33	0	2	0	2	0	0	0	32	0	14	0	10	10	100	0	
1	9	20	5	4	1	0	3	0	0	0	9	0	35	0	0	0	3	2	0	0	0	34	31	7	9	77.8	0		
1	9	20	5	5	0	1	5	0	0	0	0	10	55	0	0	2	2	0	0	0	0	28	38	0	7	10	70	0	
1	9	22	5	0	40	1	35	1	22	18	561	6	309	11	40	5	39	7	22	19	595	40	304	69	154	168	91.7	0	
1	9	22	5	1	4	0	3	0	0	0	53	0	30	62	4	0	2	0	0	0	43	0	19	0	13	16	81.3	0	
1	9	22	5	2	3	0	8	0	0	0	45	0	75	0	3	1	1	0	0	0	41	6	7	0	15	16	93.8	0	
1	9	22	5	3	5	0	6	0	0	0	67	0	50	0	2	0	3	0	0	0	25	0	29	0	16	16	100	0	
1	9	22	5	4	1	0	7	0	0	0	16	0	78	0	3	0	3	2	0	0	51	0	25	25	14	16	87.5	0	
1	9	22	5	5	0	4	3	0	0	0	0	203	27	0	0	7	2	0	0	0	0	79	244	0	5	16	31.3	0	
1	9	10	6	0	38	3	27	5	15	17	505	22	631	72	39	4	37	1	24	26	644	27	290	10	141	154	91.6	0	
1	9	10	6	1	3	0	1	1	0	0	29	0	13	24	3	0	5	2	0	0	66	0	32	26	12	15	80	0	
1	9	10	6	2	3	3	4	1	0	0	54	25	38	77	3	1	1	0	0	0	46	9	6	0	11	16	68.8	0	
1	9	10	6	3	5	0	5	1	0	0	58	0	40	15	1	0	4	0	0	0	14	0	30	0	15	16	93.8	0	
1	9	10	6	4	4	0	4	0	0	0	44	0	39	0	4	0	4	0	0	0	48	0	33	0	16	16	100	0	
1	9	10	6	5	1	0	6	2	0	0	10	0	77	25	2	0	4	0	0	0	29	0	44	0	13	15	86.7	0	
1	9	15	6	0	46	6	31	3	26	22	582	47	281	55	38	10	41	8	23	19	561	76	313	112	158	181	88.2	0	
1	9	15	6	1	4	2	3	2	0	0	42	19	24	29	4	0	3	0	0	0	59	0	43	0	14	16	77.8	0	
1	9	15	6	2	2	1	5	1	0	0	33	6	43	13	4	1	3	1	0	0	58	10	21	11	14	16	77.8	0	
1	9	15	6	3	2	1	4	0	0	0	21	5	30	0	7	1	4	0	0	0	114	7	37	0	17	19	89.5	0	
1	9	15	6	4	4	1	7	0	0	0	41	6	64	0	1	0	3	2	0	0	10	0	21	27	15	18	83.3	0	
1	9	15	6	5	4	2	3	1	0	0	55	20	26	14	1	2	3	2	0	0	12	33	31	28	11	18	61.1	0	
1	9	17	6	0	32	8	39	3	19	20	372	64	333	40	38	4	39	9	15	16	491	31	305	168	148	172	86	0	
1	9	17	6	1	2	4	4	0	0	0	33	35	33	0	2	2	4	0	0	0	32	35	31	0	12	18	66.7	0	
1	9	17	6	2	0	3	6	0	0	0	0	26	47	0	4	0	3	1	0	0	55	0	22	10	13	17	76.5	0	
1	9	17	6	3	7	0	3	0	0	0	81	0	26	0	6	0	2	0	0	0	84	0	13	0	18	18	100	0	
1	9	17	6	4	4	1	5	0	0	0	39	8	46	0	1	0	6	1	0	0	11	0	39	10	16	18	88.9	0	
1	9	17	6	5	3	1	4	1	0	0	36	13	32	14	2	4	0	3	0	0	24	43	0	38	9	18	80	0	
1	9	19	6	0	42	8	38	3	21	17	533	58	322	44	37	5	41	4	22	20	460	35	306	37	158	178	88.8	0	
1	9	19	6	1	2	3	2	0	0	0	107	33	75	0	1	4	6	0	0	0	12	105	70	0	11	18	61.1	0	
1	9	19	6	2	1	3	5	1	0	0	12	28	40	23	2	1	4	1	0	0	20	17	24	12	12	18	66.7	0	
1	9	19	6	3	4	1	2	1	0	0	41	6	21	11	6	1	1	1	0	0	80	5	7	12	13	17	76.5	0	
1	9	19	6	4	5	0	3	1	0	0	59	0	23	10	2	1	4	1	0	0	35	7	29	11	14	17	82.4	0	
1	9	19	6	5	2	2	2	1	0	0	22	25	16	15	2	1	6	1	0	0	48	7	54	15	12	17	70.6	0	
1	9	3	7	0	31	2	47	7	20	24	384	20	422	81	46	2	34	11	23	26	629	26	333	144	158	180	87.8	0	
1	9	3	7	1	8	0	1	0	0	0	88	0	11	0	2	2	3	1	0	0	18	36	25	21	14	17	82.4	0	
1	9	3	7	2	6	0	3	0	0	0	71	0	27	0	1	2	6	0	0	0	23	23	55	0	16	18	88.9	0	
1	9	3	7	3	3	1	5	0	0	0	32	7	53	0	4	0	4	1	0	0	46	0	30	13	16	18	88.9	0	
1	9	3	7	4	1	1	8	0	0	0	15	7	82	0	1	0	4	0	0	0	50	0	52	0	17	15	94.4	0	
1	9	3	7	5	2	1	6	1	0	0	27	6	53	10	5	0	3	0	0	0	71	0	24	0	16	18	88.9	0	
1	9	14	7	0	35	2	38	10	15	20	333	14	346	103	40	7	29	5	17	24	469	72	236	44	142	165	85.5	0	
1	9	14	7	1	3	1	3	0	0	0	36	10	30	0	4	0	1	0	0	0	47	57	0	29	10	16	62.5	0	
1	9	14	7	2	3	2	2	0	0	0	32	24	18	0	3	2	3	1	0	0	36	36	28	19	11	16	68.8	0	
1	9	14	7	3	0	2	3	1	0	0	0	18	22	9	3	1	3	3	0	0	35	15	34	42	9	16	56.3	0	
1	9	14	7	4	4	0	6	1	0	0	33	0	57	7	2	0	3	0	0	0	20	0	21	0	15	16	93.8	0	
1	9	14	7	5	3	1	3	0	0	0	27	8	21	0	0	3	0	5	1	0	0	40	0	38	13	14	16	87.5	0
1	9	16	7	0	33	4	28	3	20	17																			

Matching to Sample, Blue versus Yellow, MTS 0 s delay Probe sessions (Level 5)

Possums: 1=Sparky, 2=Hasty, 3=Marmite, 4=Tom, 5=Ishan, 6=Charlotte, 7=Bonnie, 8=Gus, 9=Elroy, 10=Taylor. All sessions 3600 seconds.

Pos=possum, Lev=test level L=Left, R=Right, cor=correct, inc=incorrect, Rft=reinforcement, Lat=cumulative latency, Tcor=total number of corrects, T=trial count %=Percent correct, Ab=number of aborts

Pos	Year	Day	Month	Lev	Blue															Tcor	T	%	Ab	Pos	Year	Day	Month	Lev	Yellow															Tcor	T	%	Ab										
					Lcor	Linc	Rcor	Rinc	LRts	RRts	LatLcor	LatLinc	LatRcor	LatRinc	Lcor	Linc	Rcor	Rinc	LRts										RRts	LatLcor	LatLinc	LatRcor	LatRinc																								
1	9	14	5	0	35	5	35	6	19	16	479	37	306	58	35	6	35	3	17	13	434	49	300	32	140	160	87.5	0	9	9	11	5	5	0	3	0	0	48	0	33	0	4	0	0	0	0	0	54	0	0	12	12	100	0			
9	9	13	5	0	32	2	12	1	12	3	300	25	122	16	14	4	20	3	15	7	131	41	220	33	78	88	88.6	0	9	9	13	5	1	2	0	3	1	0	0	17	0	30	38	0	0	2	0	0	0	0	0	20	0	7	8	87.5	0
9	9	13	5	2	1	2	1	0	0	0	8	19	8	0	0	2	2	0	0	0	0	0	18	18	0	4	8	50	0	9	9	13	5	3	1	0	1	0	0	7	0	12	0	3	0	3	0	0	0	34	0	34	0	8	8	100	0
9	9	13	5	4	0	1	1	1	0	0	18	8	9	2	0	3	0	0	0	0	15	0	31	0	6	8	75	0	9	9	13	5	5	0	0	1	0	0	0	12	0	4	2	1	0	0	0	33	14	10	0	6	8	75	0		
9	9	15	5	0	26	1	23	2	13	13	244	8	236	31	21	7	24	0	11	11	212	90	247	0	94	104	90.4	0	9	9	15	5	1	2	1	1	3	0	0	14	11	11	15	1	0	1	1	0	0	8	0	12	15	5	10	50	0
9	9	15	5	2	1	2	2	0	0	0	7	15	28	0	1	1	3	0	0	0	54	13	29	0	7	10	70	0	9	9	15	5	3	3	1	2	0	0	0	25	11	24	0	1	0	3	0	0	0	9	0	31	0	9	10	90	0
9	9	15	5	4	3	1	2	0	0	0	28	12	16	0	3	0	2	0	0	0	28	0	23	0	10	11	90.9	0	9	9	15	5	4	3	1	2	0	0	0	17	0	0	0	3	0	5	0	0	0	27	0	41	0	10	10	100	0
9	9	19	5	0	37	1	27	6	21	16	326	10	297	62	28	14	27	4	15	11	380	506	311	121	119	144	82.6	0	9	9	19	5	1	6	0	0	2	0	0	14	6	0	0	0	0	0	0	0	40	0	0	0	12	14	85.7	0	
9	9	19	5	2	1	1	0	3	0	0	8	12	0	72	3	3	0	3	0	0	39	34	0	22	4	14	28.6	0	9	9	19	5	3	5	0	3	0	0	45	0	42	0	3	0	3	0	0	0	22	0	27	0	14	14	100	0	
9	9	19	5	4	3	0	5	0	0	0	29	0	52	0	3	1	2	0	0	0	28	7	23	0	13	14	92.9	0	9	9	19	5	4	3	0	5	0	0	29	0	52	0	3	1	2	0	0	0	28	7	23	0	13	14	92.9	0	
9	9	21	5	0	46	4	20	1	22	10	441	51	170	7	8	29	29	5	14	3	86	266	311	67	103	142	72.5	0	9	9	21	5	1	4	0	0	4	0	0	26	5	0	0	1	0	0	0	7	9	14	64.3	0					
9	9	21	5	2	6	0	0	2	0	0	40	0	0	12	3	0	1	2	0	0	71	0	13	15	10	14	71.4	0	9	9	21	5	3	1	0	3	0	0	9	0	25	0	5	3	2	0	0	0	51	32	21	0	11	14	78.6	0	
9	9	21	5	4	4	0	0	3	0	0	36	0	0	29	0	0	6	1	0	0	0	0	61	8	10	14	71.4	0	9	9	21	5	5	3	0	4	1	0	0	28	0	40	8	1	1	3	1	0	0	9	12	23	14	11	14	78.6	0
9	9	25	5	0	30	6	16	8	17	12	255	104	169	98	30	2	26	4	14	12	260	15	274	2/58	102	123	82.3	0	9	9	25	5	1	2	0	0	5	0	0	19	0	0	60	3	0	0	2	0	0	22	0	0	27	5	12	41.7	0
9	9	25	5	2	3	0	0	2	0	0	73	0	0	11	2	0	0	5	0	0	33	0	0	62	5	12	41.7	0	9	9	25	5	3	5	0	3	0	0	36	0	30	0	2	0	2	0	0	17	0	21	0	12	12	100	0		
9	9	25	5	4	3	0	1	1	0	0	25	0	14	12	4	0	4	0	0	0	37	0	35	0	12	13	92.3	0	9	9	25	5	5	3	0	2	0	0	26	0	19	0	3	0	4	0	0	0	26	0	51	0	12	12	100	0	

