

Ability grouping practices in the primary school: A survey

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Abstract

In 1997, the DfEE suggested that schools should consider ‘setting’ pupils by ability as it was believed that this would contribute to raising standards. This survey of primary schools aimed to establish the extent to which primary schools, with same and mixed age classes, implement different grouping practices including setting, streaming, within class ability and mixed ability groupings for different curriculum subjects. Schools were asked to complete a questionnaire indicating their grouping practices for each subject in each year group. The findings showed that schools predominantly adopted within class ability groupings, either mixed or ability grouped, for most subjects. Ability grouping (within class and setting) was most common in mathematics, followed by English and science. Its implementation increased as pupils progressed through school. The type of setting adopted, same or cross age, tended to reflect the nature of the class structures within the school.

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Introduction

The education system in the UK has undergone considerable change over the last twenty years. A National Curriculum has been introduced. All pupils take national tests at the ages of 7, 11 and 14. The results of these tests, public examinations taken at age 16 and 18, and figures for attendance at school are made public for each individual school. National newspapers publish performance league tables of schools and in each locality parents scrutinise performance when selecting a school for their child. Schools are subject to rigorous inspection by the Office for Standards in Education (Ofsted) and a form of performance related pay has been introduced for teachers. At primary level, national Literacy and Numeracy Strategies have been implemented which provide a pedagogical framework within which teachers 'deliver the National Curriculum'. In English, mathematics and science, schools are required to meet government targets for pupil attainment placing them under considerable pressure to raise standards. To assist in achieving these the government indicated that primary schools should consider 'setting' children by ability (DfEE, 1997; OFSTED, 1998).

There is a long tradition of structured ability grouping in the UK. Following the separation of the old 'elementary' schools into primary and secondary schools, the Primary School Report of 1930 recommended that children in primary schools should be grouped in classes according to ability (streaming) where numbers allowed (Hadow Report, 1930). In practice, however, most primary schools were too small to implement streaming. In 1944, the Butler Education Act, established

the need for ability grouping in primary schools to ensure effective selection for different types of schooling at secondary level. Thus the practice of streaming became widespread in larger primary schools throughout the 1940s and 1950s as pupils competed for grammar school places. Through the 1950s it declined in popularity as research showed that it had no significant effect on overall attainment, and had negative social consequences for certain pupils (Jackson, 1964; Barker Lunn, 1970). By the 1970s, surveys of primary school organisation found that of those schools that were large enough to stream only about 20% chose to do so (Bealing, 1972; DES 1978). At this time there was also a general trend in educational values towards a more child-centred approach with emphasis on the overall development of the individual rather than on academic achievement; and on equality of opportunity rather than the pursuit of excellence. The Plowden Report (1967) reflected this trend, and was influential in encouraging schools towards 'unstreaming'. With the abolition of the 11+ examination and the spread of comprehensive secondary education, mixed ability classes became the norm in primary schools, and there was a move away from formal 'traditional' teaching methods. In a survey of primary schools in 2 LEAs in the early 1990s, Lee and Croll (1995) reported that less than 3% of the total adopted streaming by ability. Streaming as a form of school organisation in primary schools had almost disappeared.

During the 1990s the main educational emphasis was on increasing standards. This coupled with a widespread assumption that the best way to maximise academic success was by selective grouping led to government guidelines promoting the use of setting. In 1993, all primary schools were encouraged to introduce setting by the Department for Education (DfE Report, 16/93). This was reinforced in 1997, by the Government White Paper 'Excellence in Schools' (1997) which suggested that setting could be beneficial in raising standards. It stated that 'setting should be the

norm in secondary schools. In some cases, it is worth considering in primary schools.’ The document presented a case study of a primary school which implemented setting for maths. The school reported significant benefits from the practice: it focused the range of attainment within a class; it reduced the pressure on teachers; it enabled teachers to maintain appropriate pace and challenge, and to make good use of whole-class teaching. The White Paper also set out national targets for raising standards: by 2002 80% of 11-year-olds were required to reach standards expected for their age in English, and 75% in maths. Schools were also required by law to undertake baseline assessments of all children entering primary school, in the basics of language and literacy, maths and personal and social development. These assessments were to be analysed by LEAs to help schools measure children’s subsequent achievement.

Ofsted also took an interest in the ability grouping procedures adopted in schools. In the annual report for 1995/6, it was noted that National Curriculum assessment was having a beneficial influence on teaching. It led to a clearer focus on what was to be taught and there was more precise targeting of groups of pupils, sometimes through teaching groups based on ability (Ofsted, 1997). In 1998, the annual report (Ofsted, 1998) stated that the organisation of pupils into sets was increasing, especially in years 5 and 6 for Maths and English. Against this background, Ofsted commissioned a survey (Ofsted, 1998) exploring the prevalence of setting and its effects. The survey analysed Ofsted inspection data, issued a postal questionnaire to a random sample of 900 schools, conducted a telephone survey of a further 50 schools known to be adopting setting procedures, made paired visits to a further 50 schools of varying types, sizes and locations which were known to be using setting and visited a number of other schools with distinctive features involving setting. The findings indicated that about 60% of junior schools set

for at least one subject in some year groups, while over one third of infant schools and about one half of combined infant and junior schools did the same. The higher the number on roll, the more likely the school was to use setting in one or more year groups. It was unusual to find a school of one-form entry or below using setting. Most schools used setting in Years 5 and 6 only, with the proportion of pupils setted for at least one subject falling steadily the younger the pupils were. Of those schools that adopted setting procedures, the proportions that set for particular subjects were: maths, 96%; English, 69%; Science, 9%. Very few schools set for other subjects. The inspection evidence confirmed the above pattern and showed the use of setting to have increased compared with previous years with a move away from within class ability groups in mixed ability classes which had previously been the dominant form of grouping (Bealing, 1972).

The research reported here set out to provide detailed evidence regarding the ways that pupils are currently grouped within the primary school either within or between classes for each National Curriculum subject.

Methodology

A questionnaire was sent to 2000 primary, junior, and infant schools in England and Wales randomly selected by computer to be representative of the school population. The first part of the questionnaire requested information about: the type of LEA; whether the school was grant-maintained; the type of school, i.e. primary, junior or infant; and the number of pupils on roll. The second part requested information about the nature of grouping in and between classes for different year groups and subjects. Alternative versions of this were provided to take account of

schools with only same-age classes or some or all mixed-age classes i.e. where pupils from different year groups are registered together as a class. Schools were requested to complete a grid where codes for grouping practices were to be entered for each year group or cross age class, from reception to year 6 by subject: mathematics, English, science, geography, history, information technology, art, design and technology, music, religious education, physical education and other. The categories for different types of grouping were as follows:

- Mixed ability groups within a mixed ability class;
- Ability groups within a mixed ability class;
- Set according to ability, i.e. children taken from different classes to make up groups based on ability, regardless of age;
- Set according to ability and age/s, i.e. children taken from different classes of children of the same age/s and grouped according to ability;
- Streamed, i.e. pupils assigned to a class, where they remain consistently, according to their overall ability;
- Combination of approaches
- Other arrangements in place

Respondents were also able to indicate that a response was not applicable or that they did not know the nature of the arrangements.

The response rate was marginally lower than that obtained (44%) in the Ofsted survey (1998). Eight hundred and four schools responded representing a 40% response rate. Thirty four schools returned the questionnaires incomplete or telephoned the researchers indicating that they were under such pressure that they did not have time to complete them. To avoid increasing this

burden, a decision was taken not to send out follow up letters to increase the number of returned questionnaires. Of the schools which returned usable questionnaires 498 (65%) were primary, 94 (12%) were junior, and 135 (18%) were infant. The remaining 5% did not specify. 16% of schools had under 100 on roll, 30% under 200, 27% under 300, 13% under 400, 7% under 500, and 2% over 500. Of the schools with under 100 on roll, 88 were primary, 17 were infant and none were junior. Of the infant schools, most had between 200 and 400 on roll, with only 4 having over 400. Of those schools with less than 100 on roll, only 9% had no mixed age classes. This percentage increased steadily. Of schools with over 400 on roll, 92% had no mixed-age classes. Figure 1 shows the percentage of mixed age classes by number on roll. A substantial proportion of schools with between 100 and 400 pupils on roll had mixed age classes increasing to 91% with under 100 pupils.

Figure 1 about here

Of the schools returning questionnaires, 68% were from County LEAs, 23% were from Metropolitan or Unitary Authorities and 9% were from London Boroughs. The largest percentage of the smaller schools occurred in the County LEAs. The highest percentage of very large schools were in the London Boroughs. 23% of the County schools had less than 100 on roll. 82% of County schools had less than 300, compared to 72% of Metropolitan or Unitary Authorities and 53% of London schools.

Analysis of the data

The schools were fairly evenly divided between those who had mixed age (47%) and non-mixed age (53%) classes. To enable meaningful analysis of changes in grouping practices across age groups it was necessary to analyse the data for these two groups separately.

Schools with same age classes

Streaming

The incidence of streaming in schools with same age classes was very small. One school practised streaming in year 1, and two in years 2, 3 and 4. Four schools adopted streaming practices in years 5 and 6, although in one this was not in all subject areas and might more properly be described as partial streaming. There was one instance of streaming in a reception class, across maths, English and science only. In total, less than 2% of schools adopted any form of streaming.

Mathematics

Ability grouping was most common in mathematics. Fifty six percent of reception classes were taught in within class ability groups, rising to 71 % and 72% in years 1 and 2 respectively. In year 3 the figure dropped to 48%, falling to 41% by year 6. The reduction occurred because 38% of year 5 and 39% of year 6 Maths classes were setted. Setting in same age classes rose from 1% in reception to 24% in Year 6. Cross age setting also increased. In reception classes, 0.8% of all maths classes adopted cross-age setting, rising to 15% in year 6 with the greatest proportion

(16%) occurring in year 5. Taking the figures for setting, streaming and within class ability grouping together, in year 6 only 4% of pupils were taught in mixed ability groups. Maths, particularly in the higher year groups is perceived as best taught to homogeneous groups. Figure 2 outlines the percentage of each type of grouping adopted in each year group.

Figure 2 about here

English

In English the pattern was similar to that in mathematics. Within class ability grouping was highest at 72% in years 1 and 2, dropping to 53% in years 5 and 6 again because of the increase in setting. Same-age setting rose from 1 % in reception to 17% in years 5 and 6. Under 1% of all schools adopted cross-age setting in reception classes, rising to 6% in years 4, 5 and 6. There was less cross age setting than in maths. Between 7% and 9% were taught in mixed ability groups except in reception classes, where the figure was 27%. Overall, there was less ability grouping in English than maths. Figure 3 shows the comparative adoption of the different types of grouping.

Figure 3 about here

Science

There was very little setting in science, perhaps because the curriculum is perceived to lend itself to group work. There was a high incidence of mixed ability groups, 45-50% in all years except reception where the figure was 61%. Within class ability grouping followed a more consistent pattern than mathematics and English across the year groups; 23% in reception, 32% in year 6, peaking at 36% in year 3. The proportion of same age setting was less than mathematics and

English from 0.4% in reception rising to only 3% in year 6. The proportion of cross age setting in years 3, 5 and 6 was only 2% (See Figure 4).

Figure 4 about here

Other curriculum subjects

For most curriculum subjects pupils were grouped within the class by ability or in mixed ability groups. The incidence of mixed ability groupings within class across year groups ranged between 69% and 83%, with the highest incidences in Art, Music and PE. Tables I and II give the details of mixed and ability groupings within the class for all the subjects.

Tables I and II about here

Schools with mixed-age classes

The number of schools in the sample with some or all mixed age classes was 356, 47% of the total. The largest mixed-age cohorts were the combinations of year 1 with year 2, totalling 200 across the subjects, and year 3 with year 4, totalling 203 across the subjects. The other combinations were as follows: year 5 with year 6 – 180 instances; year 4 with year 5 – 76 instances; year 2 with year 3 – 43 instances; reception with year 1 – 160 instances. The combinations of 3 year groups together were as follows: years 2, 3 and 4 – 13 instances; and years 4, 5 and 6 - 41 instances. Other occurrences of possible 3-year-group combinations were negligible.

Streaming

There were very few instances of streaming in schools with mixed age classes: one in reception/year 1 and one in year 1/year 2. There was one in year 3/year 4 which did not include maths and two instances in year 5/year 6 which applied to Maths, English and Science only. These totalled slightly above 1%.

Mathematics

The patterns of grouping in schools with mixed age classes were very similar to those in same aged classes. Within class ability grouping in mathematics was highest in reception/year 1 at 70%, except for one grouping of three year groups together (years 2/3/4) where it was at 90%. It dropped to 50% in year 5/year 6. There were fewer instances of same age setting than in schools with same aged classes. The incidence of same-age setting was 12% in year 5/6, dropping to 2% in reception/year 1. However, the incidence of cross age setting was greater than for same aged setting. It occurred more in the higher years. In reception/year 1 there was 2%, rising to 18% in year 5/year 6. In the 3-year combinations, there was none in years 2/3/4 and 2% in years 4/5/6. Mixed ability groups were relatively rare, 14% in reception/year 1 and 13% in year 1/year 2, dropping to 7% in year 5/year 6. Figure 5 shows the pattern for classes with classes made up of two year groups.

Figure 5 about here

English

In English, the incidence of within class ability grouping was higher than maths for the upper 3 year groups. Ability grouping figures averaged at 65% across the year groups. While the overall trends for same age setting were similar in that there was an increase in setting in English as children progressed through school the pattern was not so distinct in mixed age schools suggesting that while schools may wish to increase same age setting it is not always possible. There was less same-age setting in English than in maths, but the overall pattern was similar, with 8% in year 5/year 6, 7% in year 3/year 4, but only 2% in year 4/year 5. There was a higher incidence of cross age setting than same aged setting. From only 1% in reception/year 1 to 10% in year 5/year 6. In general, compared to the same age classes there was a slightly higher incidence of cross-age setting. Mixed ability grouping was highest in reception/year 1 at 14% dropping to 10% in year 5/year 6. The 3 lower year groups had more mixed ability groups than the higher years, a slightly different pattern from the same age classes, where the incidence was around 8% in all year groups except for reception, where the figure was 27%. Figure 6 shows the grouping patterns for English.

Figure 6 about here

Science

In science between 40% and 51 % of the classes were taught in mixed ability groups. The range for ability grouped within classes varied from 29% to 36%. There was very little setting of any kind (see Figure 7).

Figure 7 about here

Other subjects

As with the same age classes, in the remaining curriculum subjects, there was a high incidence of mixed ability groups with the highest figures for Art, Music, IT and PE (see Table III). Across the year groups there was variation in the incidence of within class ability groups. Year 2/year 3 had very little across the subject areas, and year 3/year 4 the most (see Table VI). Setting was negligible except for Information Technology in years 4/5/6, where it reached 4%.

Tables III and IV about here

Discussion

This survey provides a snapshot of ability grouping practices in primary schools in the UK at the end of the 20th Century. The data indicate that within class ability grouping was the most prevalent arrangement in the core subjects of maths and English. In all other subjects the most prevalent practice was mixed ability groups within mixed ability classes. The incidence of setting was relatively low, (at most 24% in maths in year 6, in schools with same age classes) and streaming was negligible. The incidence of setting increased as the children became older following the pattern reported by Ofsted (1998). While it is difficult to make comparisons between the current study and that undertaken by Ofsted (1998), as the data from the latter is not presented in detailed, the evidence presented here suggests a lower incidence of setting.

In schools with predominantly same age classes, the incidence of cross-age setting was generally less than that of same-age setting, for example, 15% as opposed to 24% in year 6 in maths. In schools with mixed-age classes, there was more cross-age setting, for example, 18% in year 5/6

maths compared with 12% same age setting. Other subjects showed the same pattern. As same aged setting in a mixed-age class would enable pupils to work within their age group and might facilitate more focused preparation for national examinations it is perhaps surprising that this was not more widely adopted in the mixed-age classes. One possible explanation for this might be a lack of sufficient resources in schools.

More setting occurred in mathematics than in any other subject, steadily increasing towards the end of Key Stage 2, although even here the most common form of organisation throughout both primary Key Stages was ability grouping within the classroom. In English after reception, classes were largely grouped according to ability within the class. There was much less setting than in maths. In science, as in the other curriculum subjects, grouping was mainly mixed ability. These differences in grouping strategies may reflect the perceived nature of each subject domain. Mathematics and the basic skills acquired in English at primary level are viewed as building on existing knowledge. Teachers, therefore, perceive that it is important to closely match the teaching to the current levels of skill. In addition, in both cases, differentiation by outcome is perceived as more difficult than in other subject areas (Reid et al, 1982; Ireson and Hallam, 2001).

In humanities and IT a small proportion of schools adopted within class ability grouping. The proportion was similar across same and mixed age classes. In schools with predominantly same aged classes within class ability grouping was reported for 11% of 'other' classes, predominantly modern foreign languages, which are perceived by teachers to build on prior knowledge in much the same way as mathematics (Reid et al., 1982; Ireson and Hallam, 2001). In the mixed age

classes, within class ability grouping was adopted more frequently than in the same age classes for Design and Technology. Few schools with mixed age classes reported within class groupings for the 'other' category.

There was a large number of mixed-age classes in the sample: 356 out of 765 schools had some or all mixed age classes. Of those schools 91% had under 100 pupils and were classed as 'small primary schools'. The planning for mixed age classes particularly at Key stage 2 was complicated for small schools. Some had classes across Key stages, although in the present sample there were only 43 instances of year 2 with year 3 and 13 of years 2, 3 and 4 being taught together. For all schools issues of resources constrained the possibilities for adopting different kinds of pupil grouping. In small schools, working within tight financial constraints, there was little opportunity to flexibly deploy resources to enable setting to take place (Hallam et al, in press).

The findings reported here indicate that in most primary schools pupils continue to be grouped within their classes by ability or in mixed ability groups despite government guidance to increase the use of setting. Lee and Croll (1995) demonstrated that teachers and head teachers were not driven by dogma in developing their grouping policies and this research supports that view. A range of factors determine decisions about the organisation of classes and the groupings within them including evidence of results, both within the school and from larger research projects; issues relating to classroom management and whether the school has the resources and facilities to implement the desired groupings (Hallam et al., in press). If governments wish to change practices in schools it seems that exhortation alone will not suffice. Schools need to be convinced that what they are being asked to implement will work and also be given sufficient resources to

make the necessary changes. In relation to setting school's caution seems to be justified. Recent evidence, from primary and secondary schools, indicates that ability grouping, of itself, does not raise standards, and in some cases can lower them (Whitburn, 2001, Ireson and Hallam, 2001; Wiliam and Bartholomew, 2001). It can also have detrimental effects on pupils' personal and social development (Ireson and Hallam, 2001; Hallam et al., in press).

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Table I

Percentage of mixed ability groups within mixed ability classes

Year Group	Maths	English	Science	Geog/ Hist	Art	DT	Music	IT	RE	PE	Other
Year 6	4	7	45	71	83	77	80	67	78	78	73
Year 5	6	7	49	72	82	76	80	69	78	79	76
Year 4	7	8	53	74	86	80	83	71	81	81	77
Year 3	9	9	52	72	83	78	81	66	79	80	75
Year 2	7	7	47	74	82	80	80	71	79	81	77
Year 1	10	8	50	76	82	80	79	71	79	81	75
Reception	27	27	61	80	84	82	80	74	80	81	76

Table II

Percentage of ability groups within mixed ability classes

Year Group	Maths	English	Science	Geog/ Hist	Art	DT	Music	IT	RE	PE	Other
Year 6	41%	53%	32%	14%	5%	9%	6%	13%	7%	5%	11%
Year 5	42%	53%	30%	15%	5%	10%	6%	14%	7%	5%	10%
Year 4	50%	58%	29%	13%	5%	8%	5%	14%	7%	5%	10%
Year 3	48%	60%	29%	13%	6%	9%	5%	15%	7%	5%	9%
Year 2	70%	72%	36%	13%	7%	9%	5%	13%	7%	5%	9%
Year 1	71%	72%	31%	11%	6%	8%	5%	14%	8%	5%	8%
Reception	56%	56%	23%	9%	7%	7%	6%	12%	7%	5%	9%

Table III

Percentage incidence of mixed ability groups within mixed ability classes

Year Group	Maths	English	Science	Geog/ Hist	Art	DT	Music	IT	RE	PE	Other
Year 5/6	7	10	42	69	80	76	77	66	78	79	86
Year 4/5	6	8	40	61	74	69	73	57	76	72	58
Year 3/4	7	9	45	66	78	73	75	64	77	78	74
Year 2/3	9	14	46	73	82	80	81	72	81	81	77
Year 1/2	13	16	51	74	79	76	77	64	77	78	79
Reception/ Year 1	14	14	45	67	76	71	80	63	77	80	84
Years 2/3/4	0	7	7	63	80	73	69	64	75	73	100
Years 4/5/6	17	21	46	57	69	65	68	50	73	68	75

Table IV

Percentage incidence of ability groups within mixed ability classes

Year Group	Maths	English	Science	Geog/ Hist	Art	DT	Music	IT	RE	PE	Other
Year 5/6	50	60	32	17	9	13	10	19	11	7	6
Year 4/5	55	65	29	11	4	10	5	16	6	6	4
Year 3/4	58	64	35	19	9	15	10	20	12	7	12
Year 2/3	66	66	37	5	0	0	0	2	0	0	0
Year 1/2	65	64	31	14	9	31	8	18	9	6	5
Reception/ Year 1	70	69	36	18	9	15	7	18	11	6	5
Years 2/3/4	94	73	67	27	20	18	23	21	17	18	0
Years 4/5/6	67	55	37	24	15	23	15	32	13	13	12

Figure 1

Percentage of schools with mixed age classes
by number of pupils on roll

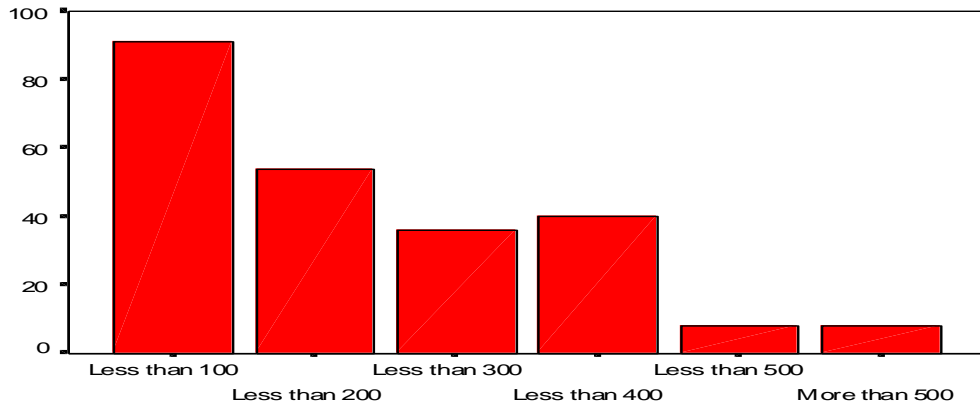


Figure 2

Types of grouping adopted in mathematics in primary schools with same aged classes

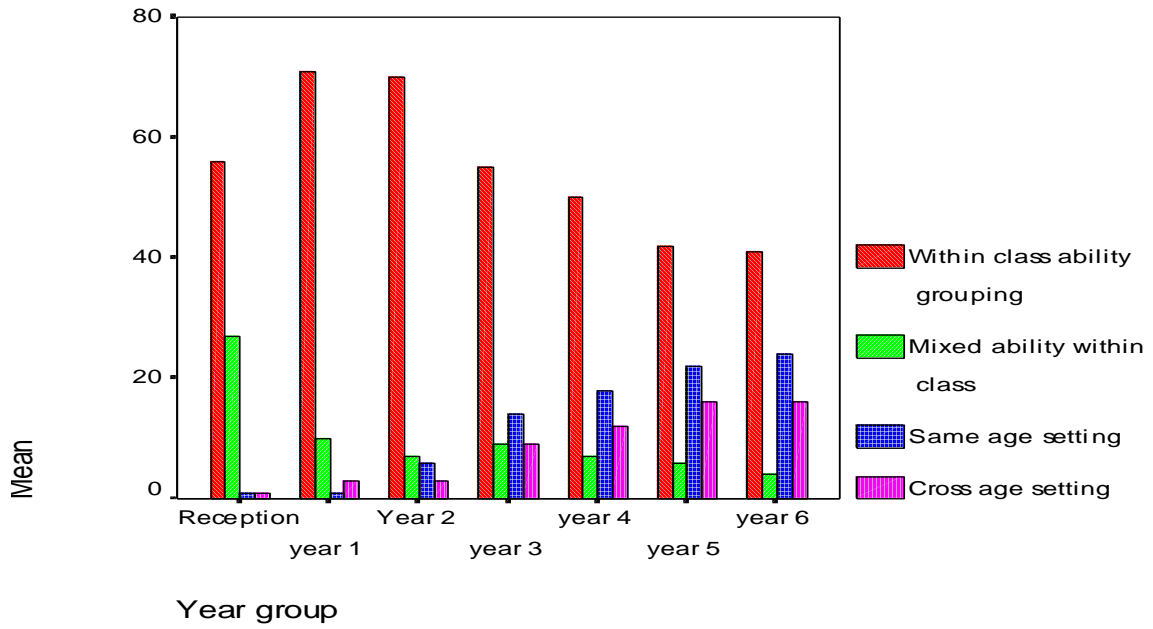


Figure 3

Types of groupings adopted in English in primary schools with same aged classes

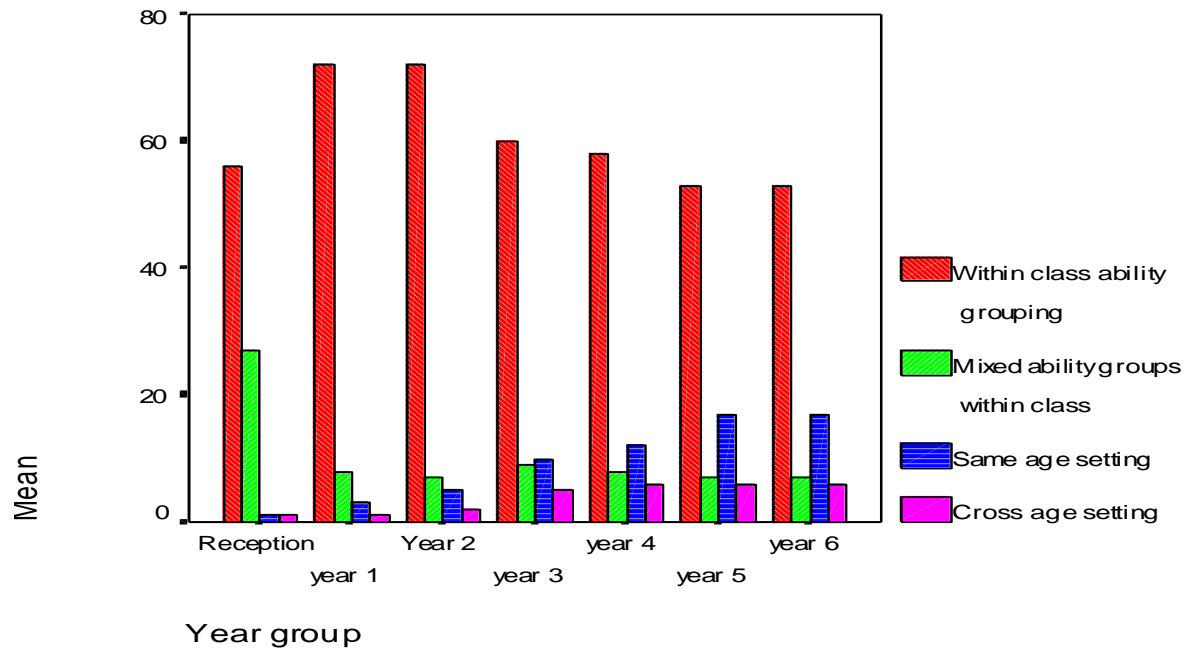


Figure 4

Types of groupings adopted in science in primary schools with same aged classes

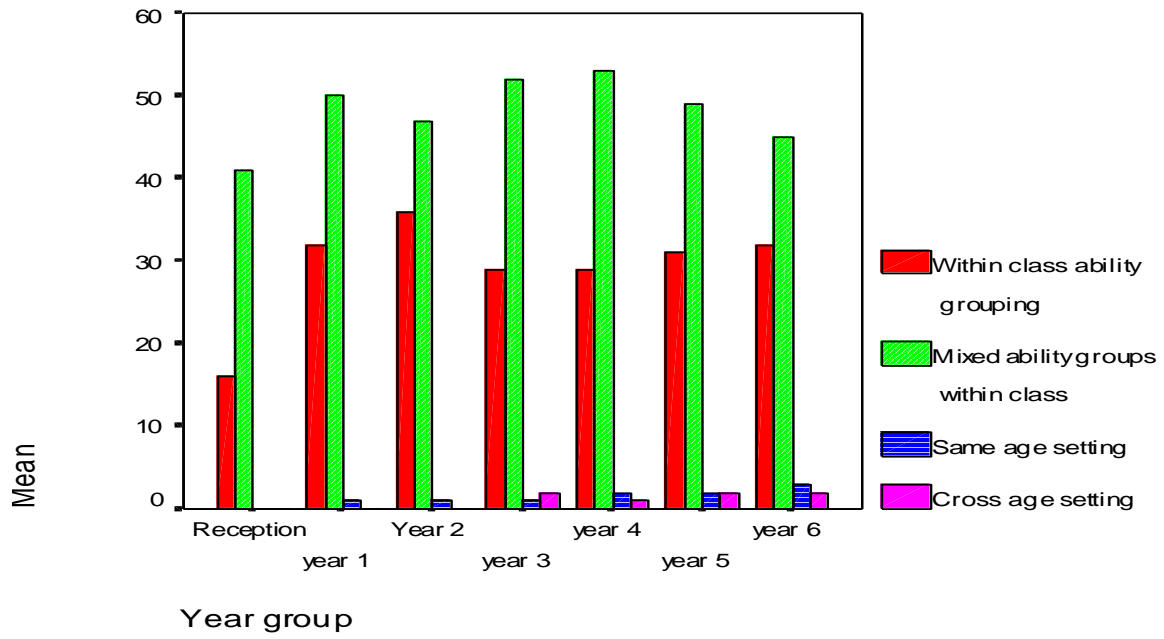


Figure 5

Types of groupings adopted in mathematics in primary schools with mixed aged classes

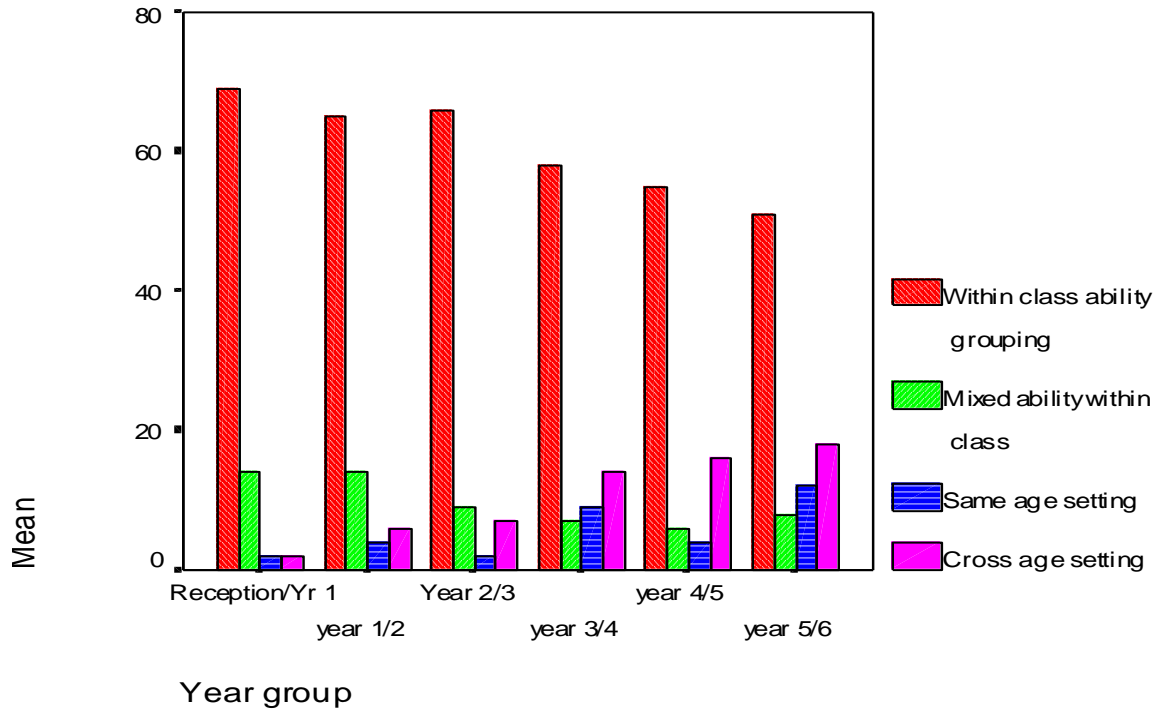


Figure 6

Types of groupings adopted in English in primary schools with mixed aged classes

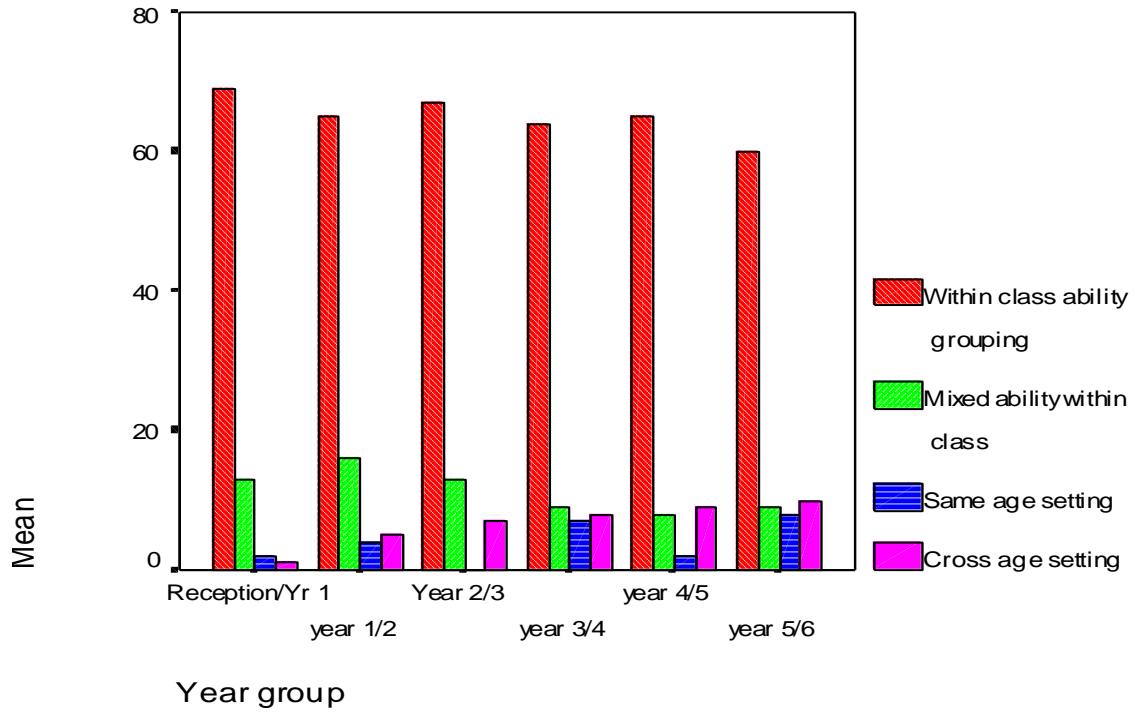


Figure 7

Types of groupings adopted in Science in primary schools with mixed aged classes

