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SIAMESE FIGHTING FISH

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Betta splendens commonly known as the Siamese fighting fish or betta is a freshwater fish that can be found in Cambodia, Laos, Malaysia, Indonesia, Thailand, and Vietnam. Siamese fighting fish is among the most popular and widely available aquarium fish in the world due to their varied and vibrant colour, diverse morphology, and relatively low maintenance. Bred varieties of Siamese fighting fish are the most well-known and the most widespread in central plain of Thailand. Their famously vibrant colours, large and flowy fins, and aggressive behaviour are the result of generations of intensive artificial selection, for which they are sometimes known as «designer fish of the aquatic world». Bettas are well known for being highly territorial, with males prone to attacking each other if housed in the same tank; without a means of escape, this will usually result in the death of one or both fish. Female bettas can also become territorial towards one another in confined spaces. Bettas are exceptionally tolerant of low oxygen levels and poor water quality, owing to their special labyrinth organ, a characteristic unique to the suborder Anabantoidei that allows for the intake of surface air.

My work is dedicated to researching what the Betta fish reacts most to. My experiment will help me find out what keeps the Siamese fighting fish calm and what makes aggressive. I observed the Bettas as I tested how they reacted to color, shape and their own reflection.

This experiment will help people to take care of their Betta properly and avoid conflicts by keeping it in the right conditions.

As a result of the work, it was revealed that male Betta fish flared their gills and raised their tails at their own reflection. Bettas flared up there gills as wide as they could and stretched out and raised their tails, which proves that Siamese fish is very aggressive towards each other. Also, the red light had the most effect on the Betta fish. My findings can help people understand what type of environment to keep their fish in, as well as what proper lighting is better to use.

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