



Fish Gills

By Lewis Chambers 9UM

1) Goldfish

My Goldfish are called Dory and Nemo!



- Goldfish gills work like a pair of lungs, but instead use the dissolved oxygen in the water. Since a goldfish lives its entire life in water, it uses osmosis. These gills are located right behind the head and eyes on both sides of the goldfish's body and covered by the operculum, that is commonly called gill covers.
- Goldfish are similar to Guppy Fish because they can live in the same temperature and can have the same food. However, if there was a big goldfish, it could eat a Guppy Fish as its dinner.
- Goldfish are different to Siamese Fighting Fish because they do not use gill flaring to defend their territory.

2) Siamese Fighting Fish

- Siamese Fighting Fish use gill flaring as an acute response in order to defend their territory; this response may be replaced by fin spreading as a chronic response, probably to reduce the energetic costs during the contest.
- Siamese Fighting Fish are similar to Sword Fish because they can be aggressive.
- Siamese Fighting Fish are different to Sword Fish because they do not have a sword grown on their head.

3) Sword Fish

- This means they need to have water flowing over their gills in order to breathe. 'If they stop swimming they sink and suffocate.' Swordfish, sailfish and tuna need to recover quickly after a sudden burst of activity, and this is why they have such large hearts and gills.
- Sword Fish are similar to Siamese Fighting Fish because they are both sometimes aggressive.
- Sword fish are different compared to Siamese Fighting Fish and Gold Fish because they do not have a sword grown on their head.

4) Guppy Fish

- Guppy fish breathe by taking water through their mouth, and then releasing it through their gills. They take oxygen out from the water with their gills. Gills are similar to lungs, and it is a very sensitive organ.
- Guppy Fish are similar to Goldfish because they also take water through their mouth and then release it through their gills.
- Guppy Fish are different to Swordfish because they also do not have a sword on their head.