

1. *What do you know about fish? Well, there's a lot to know There are 31,000 known species of fish, and likely many more that have yet to be discovered. Fish have been around a long time, 510 million years to be in fact! So Let's find out what you know about fish, and learn some new things along the way!*
2. *Fish come in all the shapes sizes and colors you could imagine. So it's not hard to confuse some animals with fish. That aren't fish at all. First, Let's see if you know what isn't a fish, because there are some animals that are definitely fish-like, but not fish at all.*
3. *The Sea Nettle, despite being a called "Jellyfish" isn't a fish at all. It's an invertebrate, it lacks a back bone, which a fish has, In fact fish were the first animals with a back bone. The Bottlenose Dolphin may look rather fishy, but it is actually a mammal like us humans*
4. *There some serious differences between fish, and marine mammals like whales and dolphins! What's the first difference you can think of? How do fish breathe and how do dolphins breath? Whales and dolphins are mammals like us, so the breath air like us! Whales and dolphins use their blowhole to breath air at the surface Fish breath water using their gills.*
5. *The most numerous fish are called boney fish, they have a hard skeleton like ours. Bony fish bodies have taken many forms; some simple, and some very extreme! We'll look at three common body shapes for bony fish; Torpedo shaped, Eel Shaped and FLAT.*
6. *Are Sharks and Rays fish? Yes they are! They have all the important qualities that make fish fishy. But there are a few big differences between sharks and Rays, and what we call boney fish. Boney fish have a skeleton made of bones, like ours. Sharks have a skeleton made of cartilage, that's what your nose and ears are made of!*
7. *Another thing that makes fish fishy are their fins. Fish have pairs of fins, and unpaired fins. Some fins are used for propelling the fish through water, and some are for steering. Fish fins can also be used for protection; many fish fins have sharp spines in them, that can hurt anything trying to eat it!*
8. *Fish Live everywhere in the ocean, and I mean EVERYWHERE. Many of them have bodies specially designed to live where they do. Some fish have flat bodies for living on the bottom. Deep Sea Fish often have extreme bodies, with large fang filled mouths, and light emitting organs. Some Fish look like the Rocks and Plants around them to hide and keep from being eaten...or sneak up on what they're eating!*
9. *Now that you're on your way to becoming a fish expert , lets test your fish knowledge. Use what you know about fish from the previous slides to answer the following questions. If you get stuck, you can go back and review using the Quiz Menu in the left corner. Good Luck!*
10. *Now that you know how a Fish breaths with its gill Gills, can you point out where they are on this Aleutian Scorpion Fish?*
11. *Remember how most fish are Bony? This one IS NOT bony. It has a skeleton made of cartilage.*
12. *You remember the fish bodies we talked about right? Well this fish has an Eel Like Body, in fact its called a Wolf Eel.*
13. *Let's see what you've learned about fish fins. For this question, match the Fish fin with word that defines the function. If you don't remember, you can go back by opening the menu in the left corner.*

14. *A lot of the fish we've seen have two dorsal fins, the pacific cod has three, can you point it out?*
15. *Rock Fish have a dorsal fin filled with sharp spines used for defense, making him a less tasty to some hungry predator?*
16. *We can tell a lot about where and how a fish lives from its body. Use what you know about fish and select where you might find each of these fish ? Remember, you can always go back if you need to check an earlier slide.*
17. *The Caudal fin of a grenadier is very long, can you find this deeps sea fish?*
18. *Where looking for a flat fish here, the arrow tooth flounder, remember, flat fish are bony fish different from ray and skates*
19. *Outstanding work, you're a real ichthyologist, you know what makes a fish fishy, how they swim and where they live. Keep it up and one day you'd make an excellent marine biologist.*