Whales and Fish: Creatures of the Deep

Fish and whales are both vertebrates, which means they both have backbones. They also live in aquatic environments. Except for a couple of species, whales live only in the ocean water. Fish, however, inhabit both fresh and salt water. Whales are among the largest animals on Earth, and some fish can be among the smallest.

Being mammals, whales are warm-blooded. This means they must maintain a constant and warm body temperature. Fish, on the other hand, are more like reptiles. Most are cold-blooded. This means their body temperature changes to match the surrounding water.

Whales have a thick layer of fat called blubber under their smooth, almost hairless skin. This fat helps them retain their body heat. Fish have very little fat, which is why many fish are prized as food. To keep from freezing in the cold water, fish blood contains an anti-freeze substance. Fish are also covered with a slimy material that helps protect their skin from salt or other chemicals in the water.

Though whales are mammals and fish are not, they are similar in some ways. Both have fins and a tail, which helps them swim and stay upright in the water. But these similarities are in appearance only. Whales move their body through the water with the help of their horizontal tail, which flaps up and down to propel them through the water. Fish, on the other hand, have vertical tails, which move from side to side. Even though whales are huge creatures, they can reach astounding speeds when swimming. Killer whales can swim up to 37 miles per hour; some dolphins move at speeds of 18 miles per hour, while the large Fin Whale cruises along at 13 to 16 miles per hour. Right Whales and Gray Whales are somewhat slower, with a top speed of about 6 miles per hour. How fast fish swim depends on the size and shape of the fish. Herring, a small fish, swims at only 3 miles per hour. Swordfish are the speedsters. They have been clocked at 60 miles per hour. Both whales and fish will swim at high speeds if they are chasing or escaping an enemy. It requires too much energy to swim fast all the time.

Whales can dive deeply and stay underwater a long time. The Sperm Whale, for instance, can dive to more than 6,500 feet, depths that would crush a submarine. It can also remain under water for up to 90 minutes! Like land mammals, whales have lungs and must come to the surface to breathe through their blowhole, which is located on the top of the whale's head. Fish, on the other hand, breathe by removing oxygen from the water through special organs called gills. A fish will quickly suffocate when removed from the water.

- 1. What protects a fish from freezing in very cold water?
 - A. A layer of slimy material coating the fish's skin.
 - B. A layer of blubber.
 - C. An anti-freeze substance in the fish's blood.
 - D. Fish normally stay in warm water to prevent freezing.

0%	100%
_	_
Confident	Confident

2.	Wh	at does th	e word	propel	mean in	this pa	ssage?						
	A.	To keep l	norizon	ıtal.									
	B.	To move	or pusl	h forwa	rd.								
	C.	To keep t	he air p	pressure	constar	ıt.							
	D.	To stabili	ze or h	old upr	ight.								
		0%								1	00%		
	C	Confident								Con	fident		
3.	The	e main ide	a of thi	s passag	ge is:								
	A.	How wh	ales an	d fish a	re differ	ent and	similar.						
	B. How whales swim.												
	C.	C. Why whales can stay underwater longer than fish.											
	D.	How fish	n and w	hales u	se oxyge	en.							
		0%								1	00%		
	C	Confident								Con	fident		
4.	A f	ish will di	e if ren	noved fi	om wat	er beca	use						
	A.	The fish'	s intern	nal organ	ns will t	e crush	ned by ai	r pressu	ıre.				
	В.			_			-	-					
	B. The anti-freeze in the fish's blood will quit working.C. A fish's gills cannot remove oxygen from the air.												
	D.	The air p	ressure	will bu	rst the f	ish's lu	ngs.						
		0%							100%				
	C	Confident								Con	fident		
5.	Son	me charact	eristics	s of mar	nmals a	re that t	hey:						
	A.	Have sca	les and	lay egg	S.								
	B.	Can adju	st their	body te	mperatu	ire to m	atch the	water t	emperatu	re.			
	C.	Can swin	n very o	quickly.									
	D.	Are warn	n-blood	led and	have lui	ngs.							
		0%								1	00%		
	C	Confident								Con	fident		
On a	scal	e between	1 and	10 with	1 being	low an	d 10 bei	ng how	well did	you lik	e this p	assage?	
Did	n't										_	I Really	
Like At A		1	2	3	4	5	6	7	8	9	10	Liked It	
		tions: Cr and fish.	eate a	Venn o	diagran	n that s	shows th	ne simil	arities a	nd diff	erence	s between	