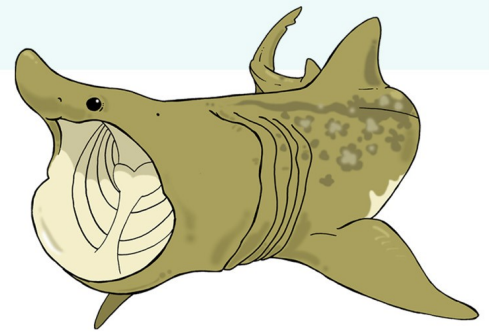


Read about how the animals below trap their food, then answer the questions in full sentences.

The two biggest sharks in the oceans filter tiny **microorganisms** from the water. Both the whale shark and basking shark (right) sieve **plankton** from the water (this may contain a variety of tiny floating creatures). They simply move through the water with their jaws wide open.



basking shark

humpback whale



The humpback whale targets large masses of small fish or krill. They release **curtains of bubbles** that prevents prey escaping. This is known as "**bubble-netting**". A surge upwards and the mouth of this massive mammal is full. Seawater is forced back out and brush-like **baleen** catches the food that remains.

EXPLAIN HOW THESE METHODS ARE...

A, SIMILAR

B, DIFFERENT

Whilst some animals actively seek out their prey, others use a more **patient** strategy. Spider **webs** are the most elaborate traps in nature, with **sticky strands of silk** ensnaring flying insects which the spider wraps in more silk before feeding.

garden spider

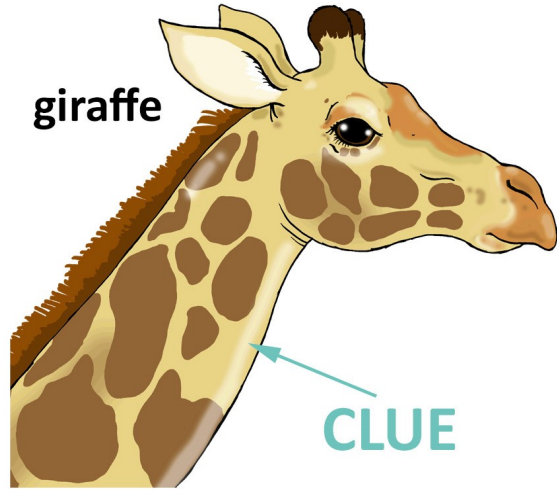


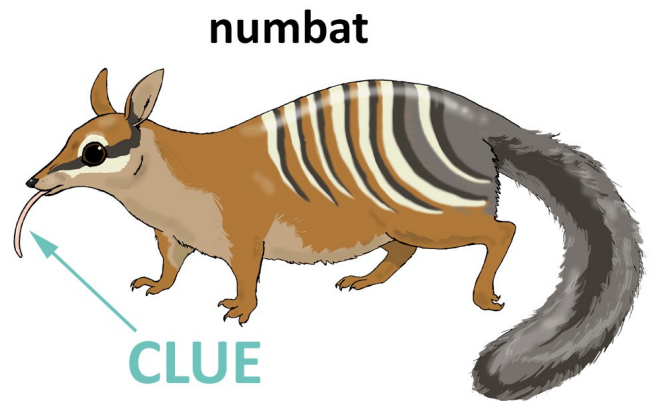
DRAW A WEB FOR THE SPIDER
AND A FLY TRAPPED WITHIN IT

Adaptations: Accessing Food

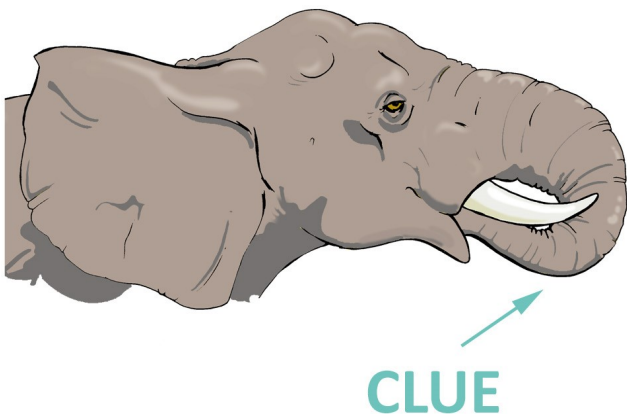
name _____

Look at the animals below. Use the clues to explain how they are adapted to reaching food? (you can do extra research)



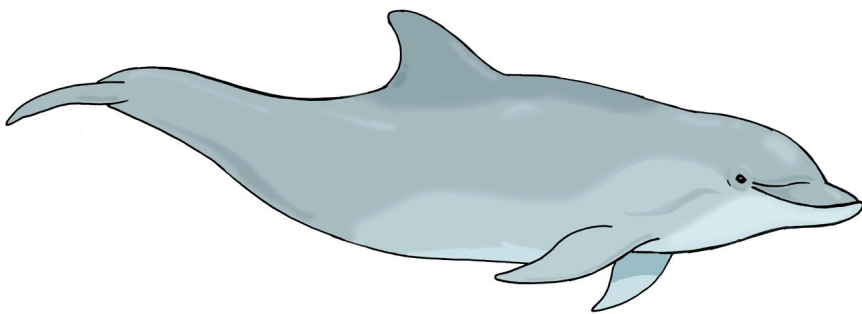


African elephant



Draw soundwaves to show how these animals project sound and bounces off objects. The returning echo enabling them to detect their surroundings, including prey.
(You could add prey items to your diagram)

bottlenose dolphin



pipestrelle bat

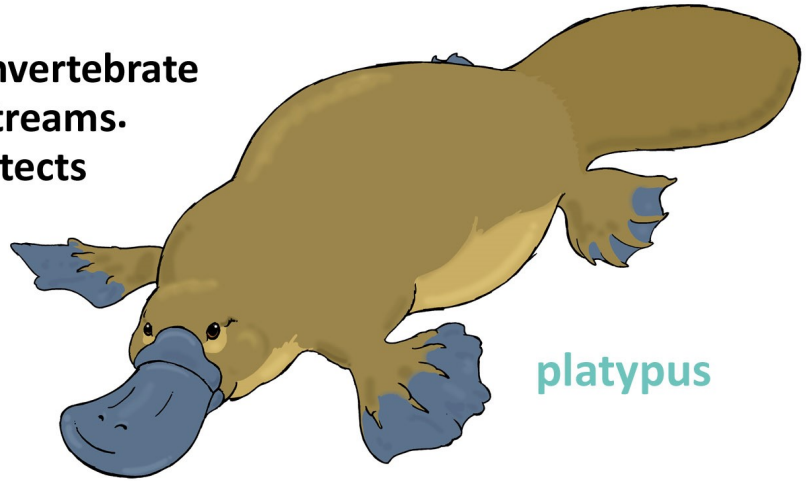


EXTENSION - search for recordings of bat and dolphin noises. What similarities do you notice?

Adaptations: Searching For Prey

name

The platypus forages for small invertebrate prey on the beds of rivers and streams. Their super sensitive bill also detects tiny electrical signals. Having webbed feet and thick fur further helps this mammal cope in the cool waters.



platypus

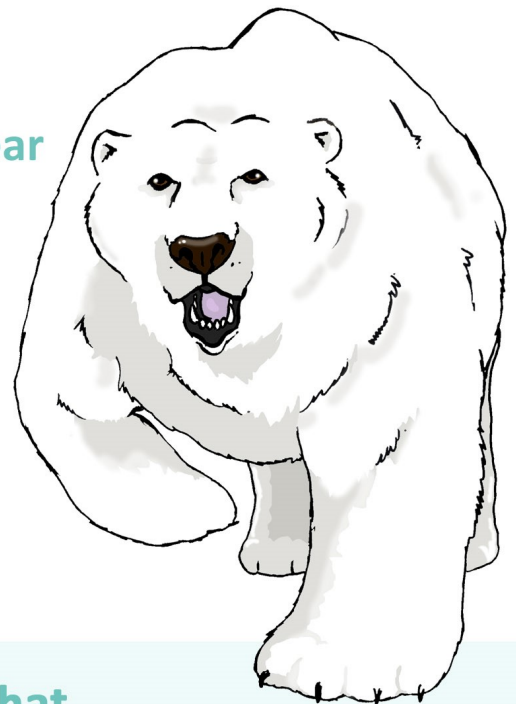
raccoon



Raccoons have incredibly sensitive paws and whiskers that detect the presence of the creatures it eats. Rummaging through the shallow waters, they are skilled in grabbing the frogs, crayfish and insects that make up part of a varied diet.

Food is so scarce at the frozen Arctic, the polar bear heavily relies on a powerful sense of smell to detect any feeding opportunity. Their noses can locate food that may be very far away, for example, the scent of a whale carcass may draw in bears from far around.

polar bear



Use ICT skills to research other animals that...

- Use whiskers to sense their surroundings
- Detect prey with electroreception
- Find food using a sense of smell.

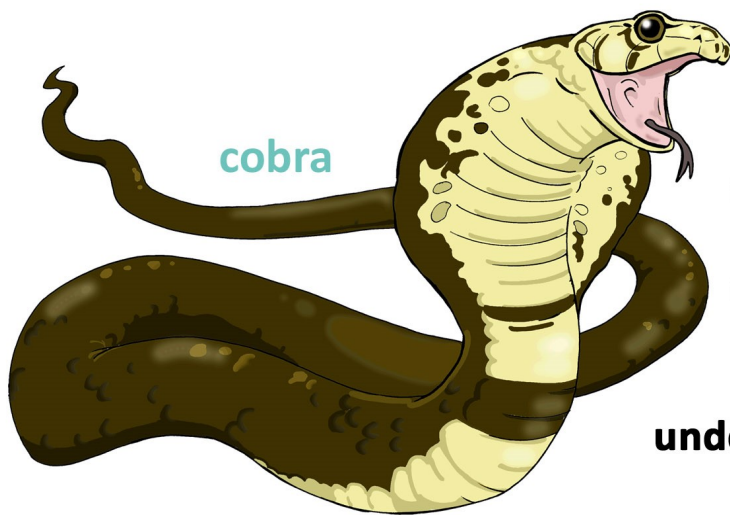
Create a fact sheet or presentation on the subject.

Rather than try to hide from predators, some animals have evolved to give striking warnings that they are not an easy meal.

Snakes such as the red headed krait employ vivid colouration to demonstrate they have toxic venom. Such is the effectiveness of this strategy, that some non-venomous snakes mimic their poisonous relatives.



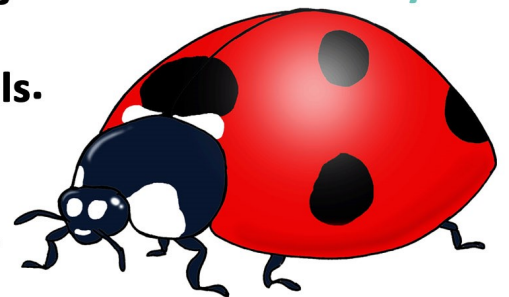
red headed krait



cobra

Cobra have distinctive hoods that they can erect when threatened. They raise up and wave to ensure they are seen. A would be predator, or a large animal that may injure the snake is warned before they get too close. The cobra may then spit venom at the source of danger if undeterred, and ultimately, it may strike out with sharp fangs.

The brightly coloured wing covers of ladybirds give a clear warning to predators that they emit unpleasant smelling and tasting chemicals. Whilst this may not save the insect, the predator will remember the experience and so others will look for better tasting prey.

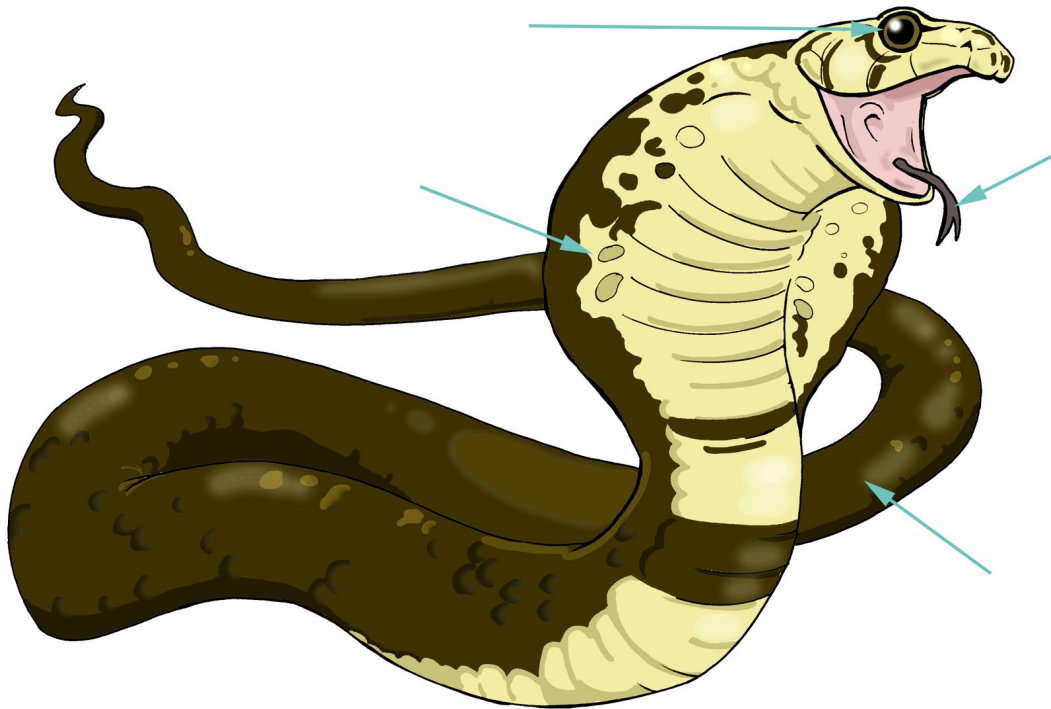


ladybird

The animals above all also use chemicals to also keep them safe. Explain how the visual signs and chemicals keep them safe?

Adaptations: Black Cape Cobra

name



LABEL, THEN LINK THE FEATURE TO THE FUNCTION

muscular tail

hood

tongue

large eyes

makes cobra look big/ scary

detects movements of prey

detects scent of prey

moves the snake and grips

How do the physical features of the cobra help it survive? (WOW words may help)

WOW WORDS

reptile

strike

predator

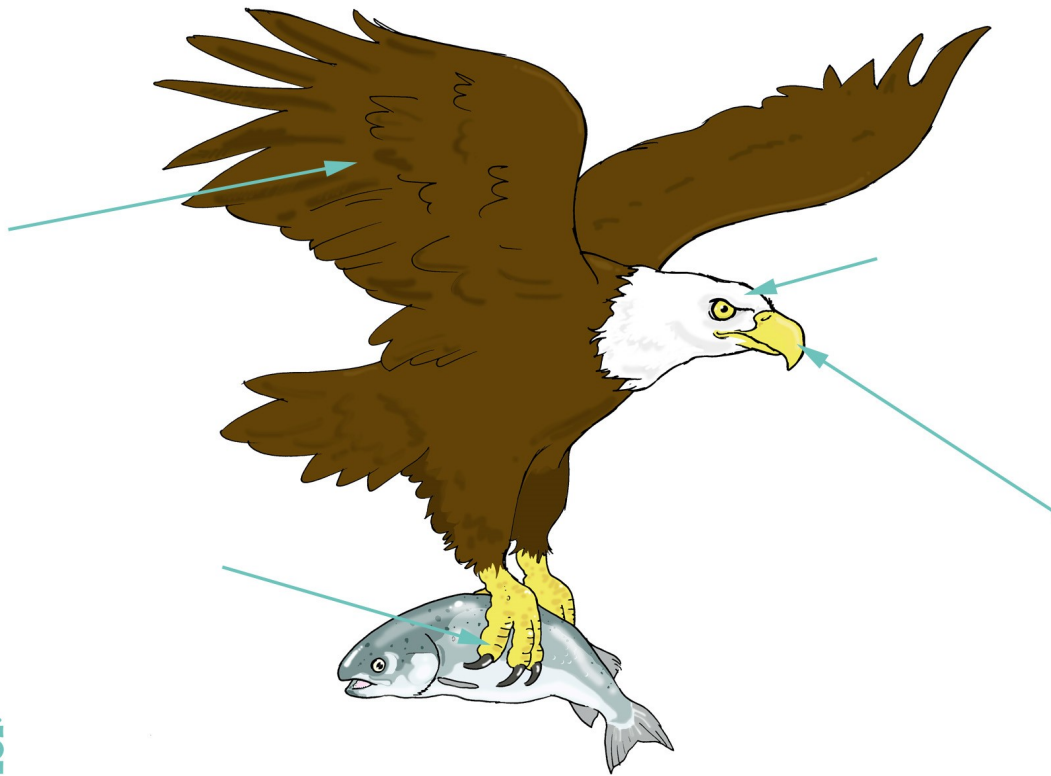
venom

slither

forked

Adaptations: Bald Eagle

name _____



LABEL, THEN LINK THE FEATURE TO THE FUNCTION

hooked beak

sharp talons

excellent eyesight

broad wings

gliding on air currents

tearing up prey

gripping/ holding prey

detecting prey

How do the physical features of the eagle help it survive? (WOW words may help)

WOW WORDS

soaring plummet predator grasp powerful vision



LABEL, THEN LINK THE FEATURE TO THE FUNCTION

powerful forelimbs

spines

long claws

long nose

scraping away soil

digging up hard soil

detecting small prey

protection from predators

How do the physical features of the echidna help it survive? (WOW words may help)

WOW WORDS

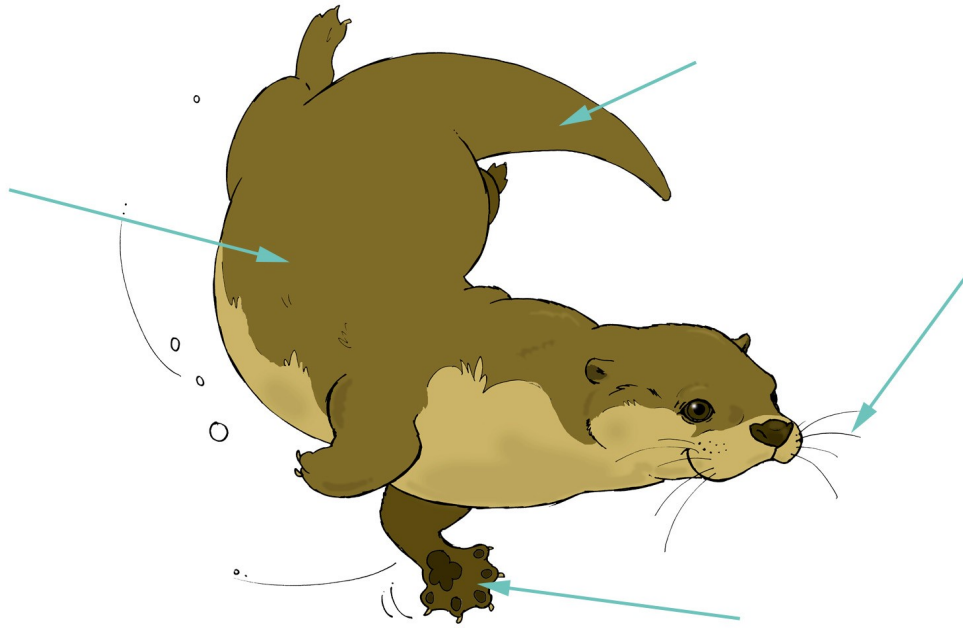
mammal

sensitive

excavate

defensive

hunting



LABEL, THEN LINK THE FEATURE TO THE FUNCTION

thick fur

webbed paws

tail

whiskers

detecting prey

propels it in water

helps steer in water

keeps body warm

How do the physical features of the otter help it survive? (WOW words may help)

WOW WORDS

sensitive mammal predator graceful agile insulate

Adaptations: Macaroni Penguin

name _____



LABEL, THEN LINK THE FEATURE TO THE FUNCTION

webbed feet with claws

thick feathers

short wings

large, bright feathers

display

steer and propel

paddling and gripping ice

protects against heat loss

How do the physical features of the penguin help it survive? (WOW words may help)

WOW WORDS

elaborate

attractive

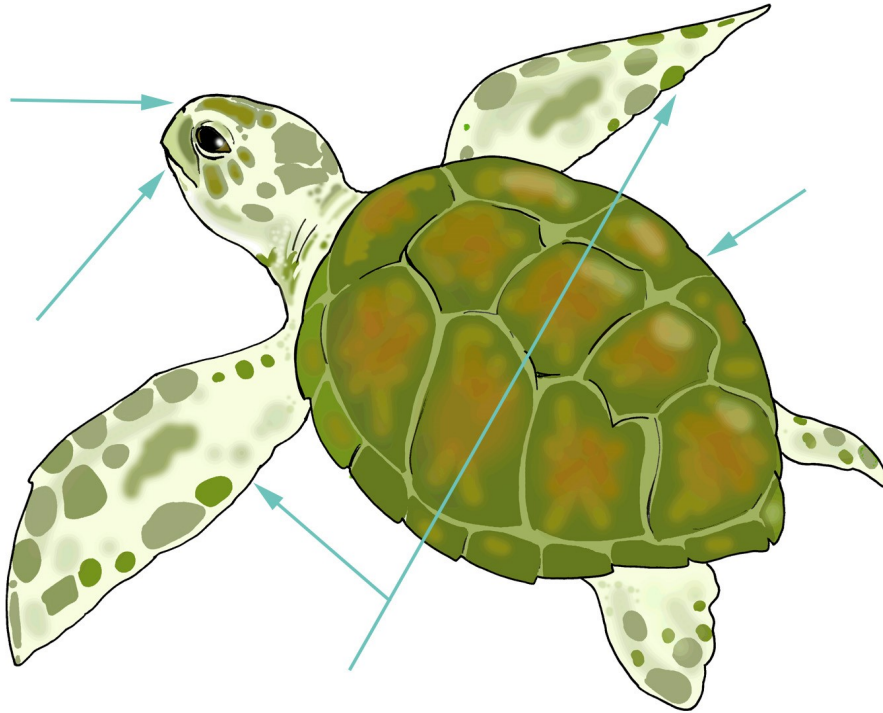
freezing

mobility

insulation

Adaptations: Green Turtle

name _____



LABEL, THEN LINK THE FEATURE TO THE FUNCTION

forelimbs

shell

beak

nostrils (high on face)

grabbing food to eat

breathing at the surface

paddling and steering

protects the body

How do the physical features of the turtle help it survive? (WOW words may help)

WOW WORDS

propel

reptile

defensive

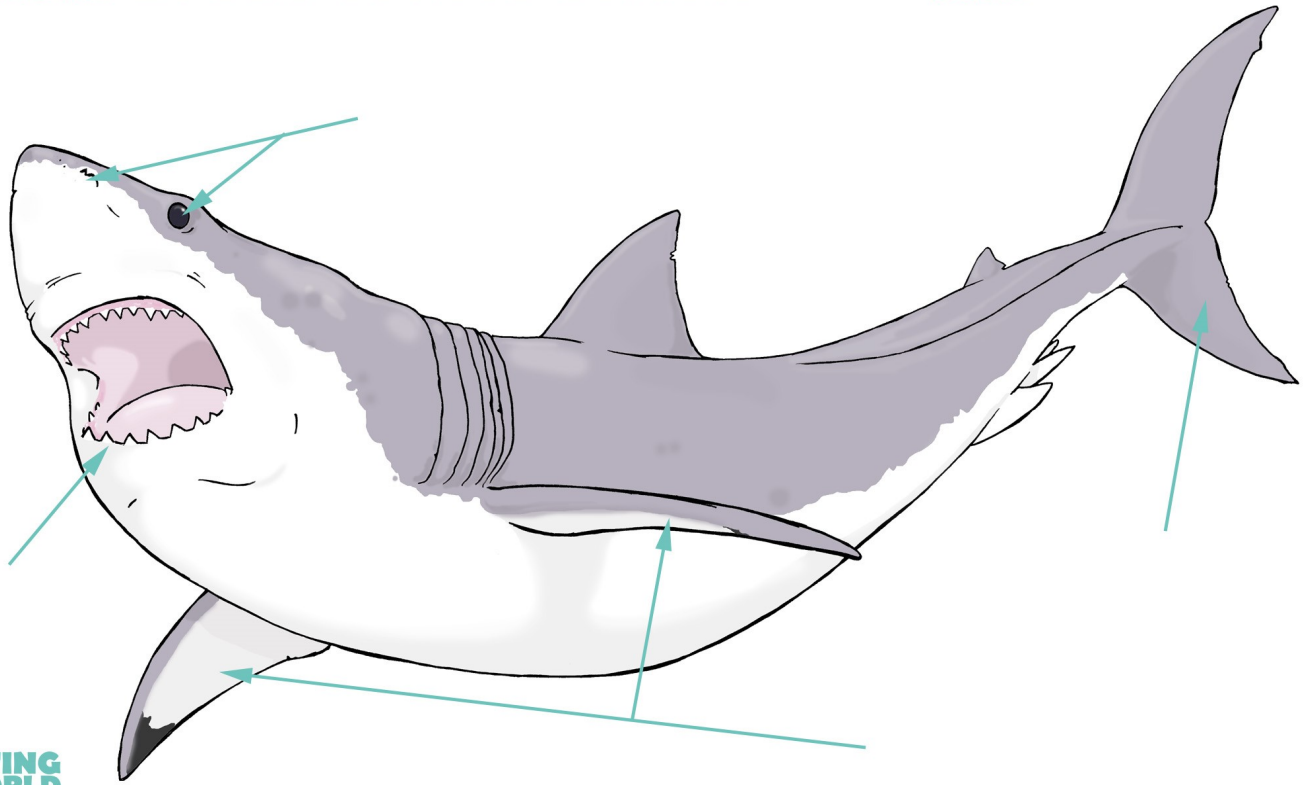
scales

gliding

ocean

Adaptations: Great White Shark

name _____



LABEL, THEN LINK THE FEATURE TO THE FUNCTION

teeth

fins

senses

tail

propels the shark

steering and balance

traps and cuts up prey

detects changes

How do the physical features of the shark help it survive? (WOW words may help)

WOW WORDS

predator powerful jaws hunts stalks swallow aquatic