Family Field Trip Days: Instructions



Step 1: Watch "Shark Diet and Dentition" and "Shark's Sixth Sense" Deep Sea Learning Videos with Georgia Aquarium (Found on the 'At Home Learning' tab of our website).

Step 2: Review "Shark Diet and Dentition" and "Shark's Sixth Sense" Fact Sheets.

Step 3: Visit Georgia Aquarium to complete the questions and activity sheets in this packet!

Step 4: Learn more about the sharks at home through the <u>Georgia Aquarium Web</u>site.







Gallery Scavenger Hunt: Sharks



Instructions: Explore Georgia Aquarium galleries and exhibits to find the answers to the questions below!

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Every organism known to science has a common name and a scientific name. 'Whale shark' is just that shark's common name. What is the scientific name of the whale shark? What two taxonomic ranks indicate the scientific name of an organism?	Bull sharks can swim far up rivers and 'breathe' in fresh water as well as salt water. They have even been spotted way upriver in the Mississippi River! When upriver they can prey on small and large fish. In the Mississippi River, how many different species of fish are there?
and	
In Cold Water Quest, this shark when threatened bends	Many sharks live around coral reefs and prey upon a

In Cold Water Quest, this shark when threatened bends its body into a U-shape, grasps its caudal fin in its mouth and swallows a large quantity of sea water, which makes it swell to twice its normal size. Which shark is it? Many sharks live around coral reefs and prey upon fish there. If a shark were to try and prey upon a scrawled filefish (found in Tropical Diver), what defense would the fish use to protect itself?

Great white sharks often prey upon pinnipeds, which is the family of animals including seals, walruses and sea lions. What does 'pinniped' mean? _______. If a great white shark were to prey upon a Zalophus californianus, what is the common name of the pinniped it would be preying upon?

Gallery Scavenger Hunt: Sharks



Instructions: An 'Atbash Cipher' can be decoded by mapping the alphabet onto itself backwards (for example, A=Z and B=Y etc.). Use the 'Atbash Cipher' to find the hidden fact about sharks!

• <u>Hint:</u> You may want to map the alphabet on the back of this paper or on a separate sheet of paper for reference.

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Gallery Scavenger Hunt: Sharks

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<u>Instructions:</u> A 'Caesar Cipher' can be decoded by finding a key that gives the decoder a certain number of letters to count backwards in the alphabet (for example, if the key is '7' then A=T). Answer the question below to get the key and use the 'Caesar Cipher' to find the hidden fact about sharks!

Key: How many gill slits do whale sharks have on one side of their face? f T t t g g n C m f k t d Z n 0 Z n Z X Z n а m

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Gallery Scavenger Hunt: Sharks **KEY**



Instructions: Explore Georgia Aquarium galleries and exhibits to find the answers to the questions below!

Every organism known to science has a common name and a scientific name. 'Whale shark' is just that shark's common name. What is the scientific name of the whale shark? **Rhincodon typus**

What two taxonomic ranks indicate the scientific name of an organism? **Genus** and **Species**

In Cold Water Quest, this shark when threatened bends its body into a U-shape, grasps its caudal fin in its mouth and swallows a large quantity of sea water, which makes it swell to twice its normal size. Which shark is it? **Swell shark**

Bull sharks can swim far up rivers and 'breathe' in fresh water as well as salt water. They have even been spotted way upriver in the Mississippi River! When upriver they can prey on small and large fish. In the Mississippi River, how many different species of fish are there? **375**

Many sharks live around coral reefs and prey upon fish there. If a shark were to try and prey upon a scrawled filefish (found in Tropical Diver), what defense would the fish use to protect itself?

It can lock spines into position on its back and hide in small crevices or caves to escape predators

Great white sharks often prey upon pinnipeds, which is the family of animals including seals, walruses and sea lions. What does 'pinniped' mean? **Fin-footed**. If a great white shark were to prey upon a *Zalophus californianus*, what is the common name of the pinniped it would be preying upon? **California Sea Lion**

Gallery Scavenger Hunt: Sharks **KEY**



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• <u>Hint:</u> You may want to map the alphabet on the back of this paper or on a separate sheet of paper for reference.

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Gallery Scavenger Hunt: Sharks **KEY**



<u>Instructions:</u> A 'Caesar Cipher' can be decoded by finding a key that gives the decoder a certain number of letters to count backwards in the alphabet (for example, if the key is '7' then A=T). Answer the question below to get the key and use the 'Caesar Cipher' to find the hidden fact about sharks!

Key: How many gill slits do whale sharks have on one side of their face? 5 (count the black letter back 5 letters)

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Keystone Species: a crucial member of an environment that, if it was removed, the ecosystem would change drastically. As predator keystone species, sharks help keep populations in check from over producing, which in turn preserves the life of many other species in the ecosystem as a whole.