

Family Field Trip Days: Instructions



Step 1: Watch "**Blubber and Adaptations**" Deep Sea Learning Videos with Georgia Aquarium (Found on the 'At Home Learning' tab of our website).

Step 2: Review the "Blubber and Adaptations" Fact Sheets.

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

Step 4: Learn more about cold water animals at home through the Georgia Aquarium Website.



Gallery Scavenger Hunt: Winter Wonders



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

In Ocean Voyager, one fish has large spines on its head and dorsal almost resembling the rails of a sleigh. Which fish is it and what are these spines used for?

This invasive species can be found in every continent's ocean ecosystem, except for one. What is this invasive species and which continent is it?

Someone in China wondering by the rivers in winter could see an *Aonyx cinerea* during the holiday season. What animal would they see?

A cetacean's brain lacks an olfactory sense. What's an example of a cetacean found only in cold waters at Georgia Aquarium and what does a lack of an olfactory sensory mean?

If Santa is going to travel the world in one night, he could use some shark scales covering his sleigh. What are they called and why would they help his sleigh?

In Aquanaut Adventure, polar bears stay warm in the Arctic with thick blubber. What is the range of temperature shown on the thermometer next to the polar bear in Fahrenheit?

Trivia Activity: Winter Wonders



Instructions: Answer the trivia questions correctly to find which dots connect to each other and reveal the image on the next page. HINT: some answers can be found in galleries.

Georgia Aquarium is the only aquarium in the western hemisphere to house whale sharks. **True**= 1 to 16, 30 to 15, 14 to 24. **OR** **False**= 22 to 16, 19 to 8, 5 to 7

How do sea stars control their tube feet?
Muscular contractions= 16 to 10, 13 to 18, 19 to 5
Pulling water into its body= 19 to 5, 24 to 17, 21 to 28

Which animal is NOT apart of the emerald tree boa's diet?
Lizards= 24 to 2, 21 to 6, 6 to 12 **Fish**= 5 to 8, 8 to 2, 6 to 21
Rats= 5 to 15, 19 to 14, 25 to 13

Sharks are apex predators and indicators of overall ocean health. **True**= 11 to 6, 12 to 26, 27 to 19 **OR**
False= 18 to 25, 9 to 19, 2 to 14

What is a shark's sixth sense called?
Slit Sensilla= 1 to 29, 20 to 4, 3 to 13
Ampullae of Lorenzini= 25 to 18, 9 to 27, 10 to 29

Deep sea animals can produce their own festive lights, what is this called? **Bioluminescence**= 16 to 20, 15 to 9, 13 to 3
Lumos Maxima= 11 to 17, 7 to 28, 26 to 23

Southern sea otters are considered a keystone species for their role in what ecosystem? **Coral reefs**= 4 to 3, 17 to 24, 15 to 9
Kelp forests= 20 to 4, 26 to 7, 2 to 14

Cleaning stations are what type of symbiotic relationship?
Mutualism= 28 to 12, 23 to 30, 22 to 10
Commensalism= 28 to 21, 12 to 26, 30 to 15

This holiday season, what are the 3R's you can use to help the ocean out? **Reduce, Reuse, Recycle**= 18 to 11, 3 to 22, 4 to 25
Repay, Recycle, Run= 14 to 8, 23 to 30, 29 to 20

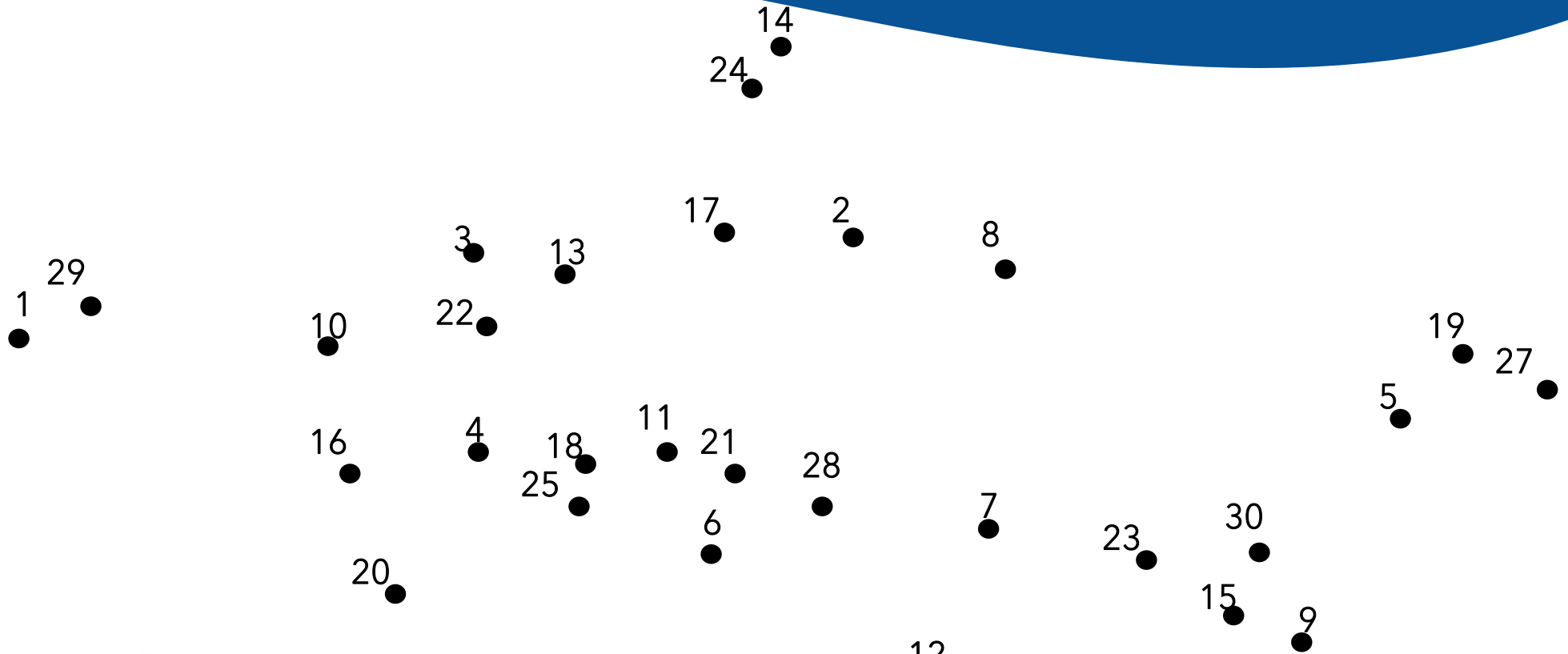
What hunting technique to American alligators utilize?
Lure= 10 to 1, 25 to 11, 19 to 27
Ambush= 29 to 1, 17 to 13, 7 to 23

Connect the dots: Winter Wonders



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GEORGIA AQUARIUM



Gallery Scavenger Hunt:

Winter Wonders **KEY**



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

In Ocean Voyager, one fish has large spines on its head and dorsal almost resembling the rails of a sleigh. Which fish is it and what are these spines used for?

Bowmouth guitarfish and the spines are for defense.

Someone in China wondering by the rivers in winter could see an *Aonyx cinerea* during the holiday season. What animal would they see? **Asian small clawed otter**

If Santa is going to travel the world in one night, he could use some shark scales covering his sleigh. What are they called and why would they help his sleigh?

Dermal denticles and they would reduce drag.

This invasive species can be found in every continent's ocean ecosystem, except for one. What is this invasive species and which continent is it?

Orange cup coral and Antarctica

A cetacean's brain lacks an olfactory sense. What's an example of a cetacean found only in cold waters at Georgia Aquarium and what does a lack of an olfactory sensory mean? **Beluga whales and they don't have a sense of smell.**

In Aquanaut Adventure, polar bears stay warm in the Arctic with thick blubber. What is the range of temperature shown on the thermometer next to the polar bear in Fahrenheit? **90°F to 42°F**

Trivia Activity **KEY:** Winter Wonders



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