

## Teaching Guide: Fossil Finders



Join our team as we use evidence from fossils to understand what environments were like long ago. Students will be sent out in groups to uncover fossils. The excavators dig, fossil experts will identify the fossils, and ecologists will identify the environment the organism once lived in. The group will use this fossil evidence to infer what the dig location was like in the past.

### Pre Activities:

- Vocabulary Review- paleontologist, ecologist, fossil, evidence, habitat, ecosystem, marine, sedimentary rock, minerals, characteristics, organisms
- Review regions of South Carolina

### Before the Program Instructions:

- Print out fossil packet and assemble (staple each corner and then cut out)
- Print 8 Habitat Expert sheets and 8 Carolina Fossils Sheets (2 for each group)

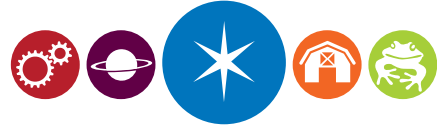
### Instructions for Day of the Program:

- Arrange students in 4 groups
- Each group and student will ideally be visible from the webcam.
- Distribute pages face down to each group
- Assign group roles- Reporter (1 per group), Ecology Experts (1-3 per group), Fossil Experts (1-3 per group), Excavators (1-3 per group)

### Post Activity

- Trilobite Mold and Cast Lesson- This PowerPoint with videos will provide an opportunity for students to apply their knowledge to fossils found in Morocco.
- Press Release- Have groups create a press release on the findings from the lesson
- Fossil Expert Sheet- Allow students to explore the additional fossils found in the Carolinas to gather evidence about what the habitat of the Carolinas was like long ago.
- **Career Connection**
  - Paleontologist
  - Ecologist

STAPLE  
HERE



Roper Mountain  
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# FOSSIL FINDERS

Group C



Group D

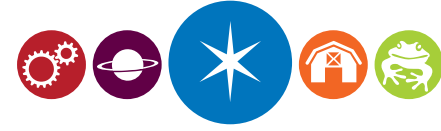
# FOSSIL FINDERS

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# FOSSIL FINDERS

Group A

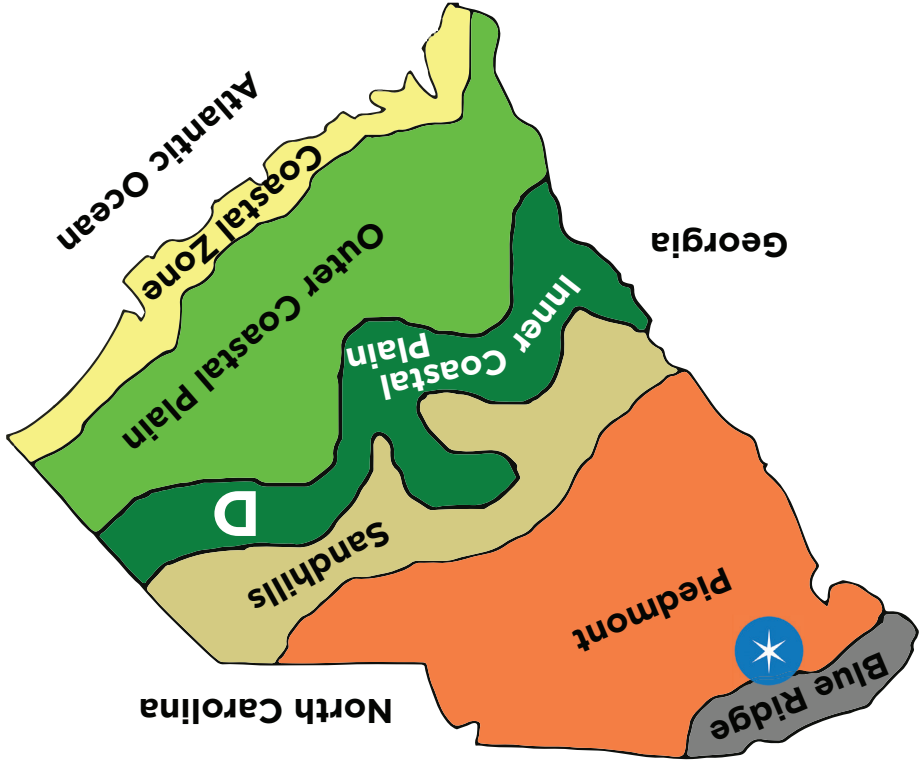
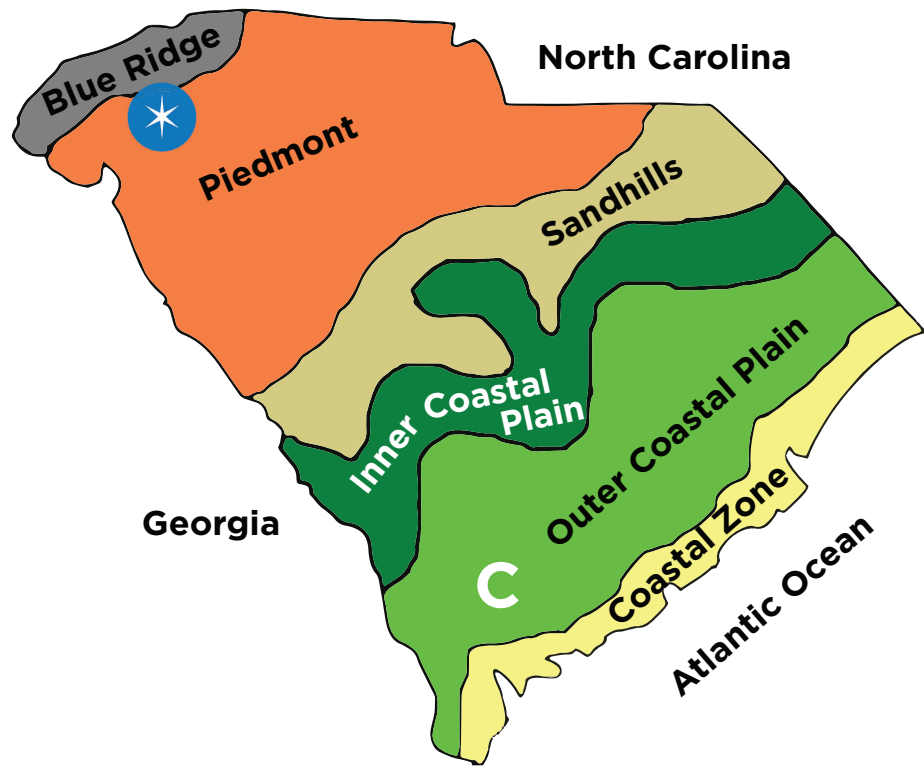
Group B

# FOSSIL FINDERS

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HERE







C

A

D

B





FOSSIL

**5 million years**

**5 million years**

**5 million years**

**5 million years**

**10 million years**

**10 million years**

**10 million years**

**10 million years**

**15 million years**

**15 million years**

**15 million years**

**15 million years**



**20 million years**

**20 million years**



**FOSSIL**

**20 million years**

**20 million years**



**25 million years**

**25 million years**

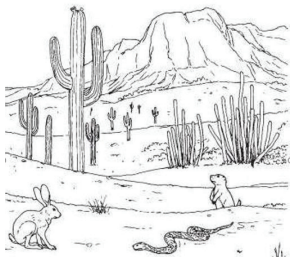

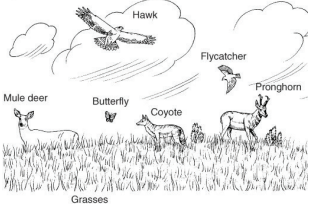

**25 million years**

**FOSSIL**



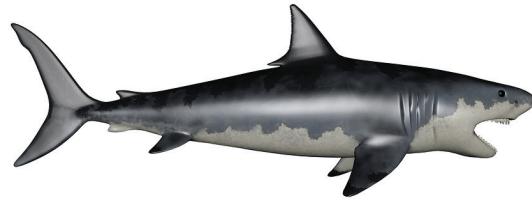
**25 million years**

# Ecology Expert

Habitats	Description	Water	Plant Life (examples)	Animal Life (examples)
<b>Desert</b> 	Dry areas, with lots of sand, very hot during the day and very cold at night.	Small amount of rainfall	Cactus	Large whales, Megladon sharks, turtles, other sharks, jelly fish (sea jellies), crabs, coral, dolphin
<b>Forest</b> 	Area covered with different kinds of trees	Medium amount of rainfall	Trees with leaves or needles, shrubs, grasses, ferns	Birds, foxes, rabbits, bears, snakes, deer
<b>Grasslands</b> 	Area of fertile (healthy) soil covered in tall grasses	Medium amount of rainfall	Grasses	Prairie dogs, grasshoppers, bison (large, cow-like animals)
<b>Oceans</b> 	Large bodies of salt water that surround a continent	Salty	Seaweed and plankton (tiny, floating plants and animals)	Large whales, Megladon sharks, turtles, other sharks, jelly fish (sea jellies), crabs, coral, dolphin

# Fossil Expert

Megalodon Tooth



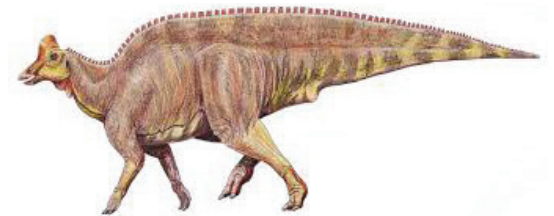
Dolphin Vertebrae (backbone)



Urchin Exoskeleton



Hadrosaur Dinosaur Tooth



Scallop Shell Fossil



Right Whale Inner Ear Bone



Branching Coral Skeleton



Mammoth Tooth

