

Name: _____

Lab Partner: _____

Date: _____

Really Ancient Fossils STEM Kit Science Notebook

The NSEOC highly recommends students keep a science notebook for ALL science classes, but if this is not possible, all of the Science Notebook prompts from the Really Ancient Fossils STEM Kit booklet are included with space for students to write, draw or sketch as needed. The page numbers reference the page in the booklet the original prompt can be found.

Part 1: The Fossil Dig

Page 3 – Use the map template to sketch a drawing of your excavation site. Use the ruler to make your map as accurately as you can. You can use the colored pencils to add some color to the drawings.

Map Template

Legend

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Part 2 – Rock Strata

Page 5 – Remove the fossils only after you have a complete excavation map and draw detailed sketches of each fossil below. Use the fossil pictures on pages 6 – 9 and descriptions to help you label your sketches.

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Part 3 – Sorting Out the Strata

Page 10 – What time periods did each of your fossils occur in? Use the Time Period Table below to shade in the boxes to show the age range of each fossil.

	Crinoid	Rugosa	Mucrospirifer	Phacopida
Present				
Pleistocene				
Pliocene				
Miocene				
Oligocene				
Eocene				
Paleocene				
Cretaceous				
Jurassic				
Triassic				
Permian				
Pennsylvanian				
Mississippian				
Devonian				
Silurian				
Ordovician				
Cambrian				
Precambrian				

Page 10 – Which fossil occurred in the most number of time periods?

Page 10 – Which fossil occurred in the least number of time periods?

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Part 4 – Calibrating the Timescale

Page 19 – Use the calibrated time scale on page 18 to determine the smallest age range when your fossils could have been buried in the sand together. Explain your reasoning.

Page 19 – Use the fossil descriptions (style of eating and habitat) on pages 6 – 9 to help you draw a picture of what you think this community looked like. Label your drawing with the 1) environment, 2) the age, and 3) the names of the creatures.

Page 19 – How do you think these creatures died? What is your evidence and reasoning?