Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_\_\_\_\_\_\_\_\_\_\_

Objective(s): Today I am differentiating between types of rocks. I am explaining how the rock cycle works. I am using rock and fossil evidence to make inferences about the age, history, and changing life forms and environment of the Earth. I am also showing how rock and fossil evidence can show changes in the Earth over time. I am describing the methods used to estimate geologic time and the age of the Earth. Lastly, I am describing how the movement of crustal plates cause earthquakes and volcanic eruptions that can result in mountain building and trench formation.

\_\_\_\_\_\_Examine samples of rocks and minerals. List qualitative and quantitative observation

\_\_\_\_\_ PowerPoint Notes: Rocks vs. Minerals PowerPoint/Notes: Rock Cycle PowerPoint

\_\_\_\_\_ It’s in the Cards: Vocabulary Rock Cycle **Sedimentary Rock, Metamorphic Rock, Igneous Rock, Element, Mineral, Rocks, Minerals, Organic, Inorganic**

\_\_\_\_\_\_Study Jam: Rock Cycle Video Summary

\_\_\_\_\_\_ Rock Cycle Lab (Starburst)

\_\_\_\_\_\_Rock Cycle Poster Project http://www.hilldale.k12.ok.us/vimages/shared/vnews/stories/5081b42b271d4/Rock%20Cycle%20Project.pdf

\_\_\_\_\_\_ Wooly Mammoth Video

http://www.bing.com/videos/search?q=wooly+mammoth&&view=detail&mid=9F3DF2573AFDBAC711DA9F3DF2573AFDBAC711DA&FORM=VRDGAR

https://www.youtube.com/watch?v=1IrxFAFL-oc&feature=player\_embedded

\_\_\_\_\_\_\_Notes: PowerPoint Factors Fossils and Fossil Evolution

\_\_\_\_\_\_\_\_It’s in the Cards Vocabulary: Fossils, Petrified, Amber, Sediments, Sedimentary Rock, Mold, Casts, Carbon Film, Trace Fossils, Evolution

\_\_\_\_\_\_\_Video Summary: Fossils and Evidence of the Past

<https://www.youtube.com/watch?v=EdGMP2_Ntzs&feature=player_embedded>

\_\_\_\_ Interactive Fossil Games

http://humanorigins.si.edu/research/fossil-forensics-interactive

<http://www.neok12.com/Fossils.htm>

\_\_\_\_\_\_ Research an organism from the past: Wooly Mammoth

Create a poster about this organism noting the following:

When organism existed

Physical Characteristics

Type of Fossil discovered

What scientists have discovered about this organism using fossil information

\_\_\_\_\_\_ Notes: PowerPoint: Law of Superposition

­­­­­­­­­\_\_\_\_\_\_It’s in the Cards: Law of Superposition, Law of Superposition, Carbon Dating, Relative Dating, Index Fossils, Half Life, Extrusion, Intrusion, Unconformities,

\_\_\_\_\_\_Video: Law of Superposition

\_\_\_\_\_\_Interactive Activity: Law of Superposition (summary)



\_\_\_\_\_\_Video: Rap Rock Layers (summary)

https://www.youtube.com/watch?v=XuAGubLhUBk&feature=player\_embedded

<https://www.youtube.com/watch?feature=player_embedded&v=M2Ex5DIjtfU>

\_\_\_\_\_Interactive Activities

<http://sciencelearn.org.nz/Contexts/Dating-the-Past/Sci-Media/Animations-and-Interactives/Relative-rock-layers>

\_\_\_\_ Worksheet Practice: Relative Dating

\_\_\_\_\_\_\_ Notes/PowerPoint: Plate Boundaries

\_\_\_\_\_\_\_It’s the Cards Vocabulary: Faults, Pangea, Plate Tectonics, Mantle, Core, Crust, Asthenosphere, Divergent Boundary, Convergent Boundary, Transform Boundary

\_\_\_\_\_VIDEO https://www.youtube.com/watch?feature=player\_embedded&v=CsRNUvLYKK0

Plate Boundary Organizer

\_\_\_\_\_\_Plate Boundary Foldable

https://www.youtube.com/watch?feature=player\_detailpage&v=qC77K8u-AIY

Plate Boundary Project: (Clay