6th Grade Earth Science
Day 7– Cohort 2- July 13 Big Idea 2

BIG IDEA 2. Earth is 4.6 billion years old.

GLCE Curriculum Code	
S.IP = Science Processes. Inquiry Process **S.IA** = Science Processes. Inquiry Analysis and Communication **S.RS** = Reflection and Social Implications	**E.SE** = Earth Science. Solid Earth **E.ST** = Earth Science. Earth in Space and Time

Locations: Flow Top in Houghton, Delaware Mine, Horseshoe Harbor, Bete Gris Beach	
Learning Outcomes:	**GLCE**
• Explain how rocks and fossils are used to understand the age and geological history of the Earth (timelines and relative dating, rock layers).	**E.ST.06.31**
• Explain how Earth processes (erosion, mountain building, and glacier movement) are used for the measurement of geologic time through observing rock layers.	**E.ST.06.41**
• Describe how fossils provide important evidence of how life and environmental conditions have changed.	**E.ST.06.42**
• Describe how science and technology have advanced because of the contributions of many people throughout history and across cultures.	**S.RS.06.19**
• Demonstrate how major geological events (earthquakes, volcanic eruptions, mountain building) result from these plate motions.	**E.SE.06.51**
• Demonstrate how major geological events (earthquakes, volcanic eruptions, mountain building) result from these plate motions.	**E.SE.06.52**
• Describe layers of the Earth as a lithosphere (crust and upper mantle), convecting mantle, and dense metallic core.	**E.SE.06.53**
• Explain how waves, wind, water, and glacier movement, shape and reshape the land surface of the Earth by eroding rock in some areas and depositing sediments in other areas.	**E.SE.06.61**
• Explain how a compass works using the magnetic field of the Earth, and how a compass is used for navigation on land and sea.	**E.SE.06.62**

6th Grade Curriculum Connections - SEPUP-Issues in Earth Science		
Activity Number	**Page #**	**Activity Name**
17	B25	Minerals in Rock
18	B29	A Rock Story
19	B33	Rock Formation
20	B38	Identifying Rock Types
37	D9	Volcanic Activity
42	D30	The Theory of Plate Tectonics
47	D51	Spreading Plates
48	B54	Plate Motion