

6th Grade Earth Science
Day 6 – Cohort 2- July 12- Big Idea 3

BIG IDEA 3. Earth is a complex system of interacting rock, water, air, and life.

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

Locations Great Sand Bay, Eagle River Bridge	
Learning Outcomes:	GLCE
<ul style="list-style-type: none"> • Compare and contrast the formation of rock types (igneous, metamorphic, and sedimentary) and demonstrate the similarities and differences using the rock cycle model. • Explain how physical and chemical weathering lead to erosion and the formation of soils and sediments. • Explain how Earth processes (erosion, mountain building, and glacier movement) are used for the measurement of geologic time through observing rock layers. • Demonstrate how major geological events (earthquakes, volcanic eruptions, mountain building) result from these plate motions. • Describe layers of the Earth as a lithosphere (crust and upper mantle), convecting mantle, and dense metallic core. • 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.06.41 E.SE.06.11 E.ST.06.41 E.SE.06.51 E.SE.06.52 E.SE.06.61

6th Grade Curriculum Connections - SEPUP-Issues in Earth Science		
Activity Number	Page #	Lesson Name
18	B29	Every Rock Tells a Story
19	B33	Rock Formation
21	B42	Modeling Rock Layers
28	C19	Cutting Canyons
29	C23	Weathering and Erosion
31	C36	Resistance to Erosion
32	C40`	Cliff Model
33	C44	Earth Processes and the Boom Town Coast