

Angileri 6th Science 10-3-16	Monday	Tuesday	Wednesday Substitute	Thursday	Friday Substitute PM
GLCE	E.SE.06.11 Explain how physical and chemical weathering lead to erosion and the formation of soils.	E.SE.06.11 Explain how physical and chemical weathering lead to erosion and the formation of soils.	E.SE.06.11 Explain how physical and chemical weathering lead to erosion and the formation of soils.	E.SE.06.11 Explain how physical and chemical weathering lead to erosion and the formation of soils.	E.SE.06.11 Explain how physical and chemical weathering lead to erosion and the formation of soils.
CONTENT OBJECTIVE:	SW demonstrate comprehension of mechanical weathering by explaining the forces that change the size and shape of rocks.	SW demonstrate application of weathering (Mechanical and Chemical) by modeling both in the Rock Weathering Simulation	SW demonstrate comprehension of Rocks and Weathering by summarizing the text in a Guided Reading exercise	SW demonstrate analysis of various types of weathering and factors that influence the rate of weathering by distinguishing between similarities and differences	SW demonstrate comprehension of physical and chemical weathering and factors that influence the rate of weathering by summarizing using a Collin's type 3.
LANGUAGE OBJECTIVE:	SW write to describe mechanical weathering using both words and illustrations.	SW write to recount the various effects weathering had on the life saver and make connections to rocks in nature.	SW write to retell key facts about rocks and weathering using sentence frames.	SW write to describe attributes of physical and chemical weathering using a graphic organizer.	SW write to describe the Factors the rate of weathering using content specific vocabulary.
ACADEMIC VOCABULARY	Discuss week 2 Frayer	Make Flash Cards week 2	Sentence practice	Test Week 2	Introduce week 3 words
CONTENT VOCABULARY	Mechanical Weathering Abrasion Ice Wedging	Chemical Weathering Oxidation	Weathering Erosion Permeable	Repeat	repeat
IN CLASS TODAY:	Mechanical Weathering Read pages 40-41	Chemical Weathering Read pages 42-43	Rate of weathering Read Pages 44-45	Graph Analysis Demo Permeable Compare and contrast	Experiment Rate of weathering Collins Type 3 writing

	Foldable: Mechanical Weathering	Rock Weathering Simulation Steal wool demonstration— Chemical weathering	Guided Reading Rocks and Weathering	Mechanical and chemical weathering	
Target Learning	I can describe the causes of mechanical weathering of rock.	I can describe factors that affect the rate of weathering.	I can use the guided reading activity to review important information about mechanical and chemical weathering	I can describe the differences between mechanical (physical) weathering and chemical weathering.	
Essential Question	What physical actions are responsible for changing the size and shape of rock?	What factors affected the rate at which the lifesaver dissolved?	What factors affect the amount of weathering a rock has?	What are the differences between mechanical (physical) weathering and chemical weathering?	

WEEK TWO

Design: to plan or show how something will look or work.

Variables: one of the factors in an experiment that may or may not change

Constant: a factor in an experiment that does not change or vary

Control: something you already know the result for, used in a scientific test, shows the method is working.

Visible: able to be seen by the eye.

Additive: a substance added in small amounts to something to improve, strengthen, or change it.

Factors: an influence that contributes to a result or outcome.

Yield: to resist or hold off.

Demonstrate: to show or prove something clearly by showing examples or evidence.

Weathering Vocabulary Content Vocabulary

Weathering -- The natural process by which **atmospheric** and environmental **agents**, such as wind, rain, and temperature changes **disintegrate** and **decompose** rocks.

Erosion -- The process by which wind, water, ice, or gravity moves or **transports** soil and **sediment** from one location to another.

Physical (Mechanical) weathering -- The mechanical breakdown of rocks into smaller pieces that is caused by **natural processes** and does not change the **chemical composition** of the rock material.

abrasion -- The process by which a rock is **reduced** in size by scraping action of other rocks driven by water, wind, and gravity.

ice wedging—Process that splits rock when water seeps into cracks, then freezes and expands.

chemical weathering—The chemical breakdown and **decomposition** of rocks by **natural processes** in the environment.

oxidation -- A **chemical reaction** in which a material combines with oxygen to form a new material.

permeable—Characteristic of a material that is full of tiny connected air spaces that water can seep through.

Acid precipitation—rain, sleet, or snow that contains **high concentration** of acids.

Terms that may need additional explanation