**Pre-assessment---Rock Cycle and Soil**

**S6E5.d**. Describe processes that change rocks and the surface of the earth.

**h**. Describe soil as consisting of weathered rocks and decomposed organic material.

**i**. Explain the effects of human activity on the erosion of the earth’s surface.

**j.** Describe methods for conserving natural resources (soil).

1. Describe the main steps of the **rock cycle** (what happens?):
	1. Weathering
	2. Erosion
	3. Deposition
2. What is sediment (or give 3 examples),

and how does sediment form?

1. Describe the two types of **weathering**:
	1. Chemical Weathering
	2. Mechanical (physical) Weathering
2. Describe the following weathering words, then write if each is chemical **or** mechanical weathering.
	1. Abrasion
	2. Rusting (of iron)
	3. Gravity
	4. Ice wedging
	5. Acid rain

**Q #1-4 Performance Tasks**



***Q1:*** Watch the Brainpop called “**Rock Cycle**”, then take the practice quiz (check answers too). Click on ACTIVITIES and do the activity sheet (vocabulary).

**OR** Make a FLOW CHART that shows a possible trip through the rock cycle (at least 6 steps). Include pics.

**OR** Carefully study www.learner.org/interactives/rockcycle/diagram.html then click “complete the cycle” at the bottom (do a screen shot showing you got a 100%)

**OR**  You are a piece of sandstone that really wants to come gneiss. Write a story/journal or perform a skit that documents your journey.

***Q2:*** Make a TREE MAP that describes the types (sizes) of soil.

**OR** Make a shadow box of the types of soil (example: sand).

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***Q3:*** Watch the Brainpop called “Weathering”, then take the practice quiz (check answers too). Click on ACTIVITIES and do the activity sheet (vocabulary).

**OR** Make a short multimedia presentation about the 2 types of weathering.

***Q4:*** Make a TREE MAP that describes the 2 types of weathering (chemical and mechanical), be sure to include: abrasion, rusting, gravity, ice wedging, and acid rain.

**OR** (if not done for question 3), make a short multimedia presentation about the two types of weathering—be sure to include pictures of abrasion, rusting, gravity, ice wedging, and acid rain

**OR** Demonstrate (for the class) at least 3 specific types of weathering.

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**Pre-assessment---Rock Cycle and Soil**

1. What is soil (what is it made of), and how does it form?
2. Identify soil as renewable or nonrenewable. List 3 ways farmers can **conserve** soil.
3. Identify and describe (the composition) soil layers (**horizons**) below:
4. How does weathering, erosion, and deposition help shape the land (give examples)?

**Q #5-8 Performance Tasks**

***Q5:*** Make a circle/pie chart that shows what makes up soil.

**OR** Make a cartoon (possibly with Powtoons.com) that shows how soil forms.

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***Q6:*** Make a TREE MAP that shows at least 3 ways that farmers can conserve their soil.

**OR** Make a 3D model that shows one way farmers can conserve soil.

**OR** Make a brochure (or website) to educate farmers about soil conservation.

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***Q7:*** Watch the Brainpop called “SOIL”, then take the practice quiz (check answers too). Click on ACTIVITIES and do the activity sheet (vocabulary).

**OR** Make a 3D model that shows the layers (horizon) of soil (be sure to include labels).

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***Q8:*** Make a multimedia presentation **OR** poster that shows:

* 2 landforms caused by weather
* 2 landforms caused by erosion
* 2 landforms caused by deposition

(be sure to include a caption for each—what is this a picture of, and where is it?)