

**Assessment & Evaluation Questions**

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EDU62350 - Content Knowledge And Instructional Practice I: Elementary Methods

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### Assessment Questions

**Standard: 4-ESS2-1.** Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation.

#### **DCI- ESS2.A: Earth Materials and Systems**

Rainfall helps to shape the land and affects the types of living things found in a region.

Water, ice, wind, living organisms, and gravity break rocks, soils, and sediments into smaller particles and move them around.

#### **DCI - ESS2.E: Biogeology**

Living things affect the physical characteristics of their regions. (Next Generation Science Standards, n.d.)

\* General information on erosion and the water cycle gathered from the National Oceanic and Atmospheric Administration (2019) and National Geographic (2022).

#### **True or False Questions:**

1. Weathering is the process that breaks down rocks into smaller particles.
2. Rainfall helps to shape the surface of the Earth.
3. Weathering and erosion are the same process.

#### **Short Answer Questions:**

1. Explain one process of the water cycle.
2. How does the water cycle impact the movement of water on Earth?
3. What are the three phases of water on Earth?

#### **Multiple Choice Questions:**

1. Which of the following is NOT one of the phases of water on Earth?
  - a. Solid
  - b. Liquid
  - c. Gas

- d. Rock
2. Which of the following is the primary source of erosion on Earth?
    - a. Rainfall
    - b. Wind
    - c. Gravity
    - d. Weather
  3. Which of the following is NOT a part of the water cycle?
    - a. Precipitation
    - b. Evaporation
    - c. Collection
    - d. Erosion

### Essay Questions:

1. Explain the process of erosion. How does it contribute to the shaping of Earth's surface?
2. How does erosion differ from weathering? Provide at least 2 examples.
3. What can we learn from making observations and/or measurements of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation?

### Rubric for Essay Questions:

Criteria	Needs Improvement	Good	Great
Content	Does not accurately describe the process of erosion.	Demonstrates a basic understanding of weathering and erosion.	Demonstrates a thorough understanding of weathering, erosion, and its effect on life on Earth.
Language & Organization	Contains many grammatical errors; the essay is not organized clearly.	Contains few grammatical errors; the essay is organized and clear.	Contains zero grammatical errors; the essay is skillfully organized and precise.
Depth	The essay lacks the depth of understanding of critical concepts.	Includes some relevant examples but lacks comprehensive analysis.	The essay goes beyond surface-level discussion, with comprehensive analysis.



## References

- Next Generation Science Standards. (n.d.). *4-ESS2-1 Earth's Systems* | *Next Generation Science Standards*. [Www.nextgenscience.org](http://www.nextgenscience.org). Retrieved September 2, 2023, from <https://www.nextgenscience.org/pe/4-ess2-1-earths-systems>
- National Geographic. (2022, June 7). *Erosion* | *National Geographic Society*. [Education.nationalgeographic.org](http://Education.nationalgeographic.org). <https://education.nationalgeographic.org/resource/erosion/>
- National Oceanic and Atmospheric Administration. (2019, February 1). *Water cycle* | National Oceanic and Atmospheric Administration. [Www.noaa.gov](http://Www.noaa.gov). <https://www.noaa.gov/education/resource-collections/freshwater/water-cycle>