

Station 1: Weathering, Erosion, and Deposition

Students will take turns reading an index card aloud to the group. The group will decide if the scenario is an example of weathering, erosion, or deposition. Students will then check their work and record one example of weathering, erosion, and deposition of the stations foldable.

Card information:

Weathering:

- As the mighty Mississippi River flows over rocks it breaks tiny pieces off the rocks. Over time these rocks become very smooth.
- When water in the Mississippi River freezes it can break rocks apart.
- Water in the Mississippi River has the ability to dissolve minerals in some rocks.

Erosion:

- The current of the Mississippi River carries small weathered rock particles downstream.
- Before some rock particles end up in the Mississippi River, they are blown across land by wind.

Deposition:

- When the Missouri River flows into the Mississippi River, some of the sediment being carried is deposited in the riverbed.
- When the Mississippi River reaches the Gulf of Mexico, it dumps tons of sediment, forming a delta.

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Directions:

1. Open the envelope marked "Weathering, Erosion, and Deposition Cards." Spread out the three cards marked "weathering," "erosion," or "deposition" on the table: these are the three category titles. Then, divide the rest of the cards among your group members as evenly as possible.
2. Take turns reading a card out loud to the group. As a group, decide whether the description on each card is an example of weathering, erosion, or deposition. Place the card underneath the category card you think it belongs to: "weathering," "erosion," or "deposition."
3. After you are done with all cards, open the envelope marked "Step #3" and check your answers.
4. Choose a specific example of each category (weathering, erosion, and deposition) from the cards and record a description on your stations booklet.