

Objective

By the end of this lesson, you will understand the basic concepts of Earth Science through a Minecraft-themed activity.

Materials and Prep

- Minecraft game
- Computer or gaming console
- Internet connection

No prior knowledge or preparation is required.

Activities

1. Activity: Minecraft Landforms

1. Launch Minecraft and create a new world.
2. Explore the world and identify different landforms such as mountains, valleys, rivers, and plains.
3. Take screenshots or draw sketches of the landforms you find.
4. Write a short description for each landform, explaining how it was formed and its significance.

2. Activity: Minecraft Rock Cycle

1. Create a small underground tunnel in Minecraft.
2. Gather different types of blocks such as cobblestone, sand, and obsidian.
3. Place the blocks in a specific order to represent the rock cycle: igneous, sedimentary, and metamorphic.
4. Explain the rock cycle verbally or through a written description.

3. Activity: Minecraft Weathering and Erosion

1. Build a small hill or mountain in Minecraft.
2. Use water or lava to simulate erosion and observe how the landscape changes over time.
3. Take screenshots or record a video to document the process.
4. Explain the concepts of weathering and erosion and how they shape the Earth's surface.

Sixth Grade Talking Points

- "Landforms are natural features on the Earth's surface that have specific shapes and characteristics."
- "Mountains are formed by the movement of tectonic plates and can be found in different parts

of the world."

- "Rivers play an essential role in shaping the land and providing habitats for various organisms."
- "The rock cycle describes the continuous process of how rocks are formed, broken down, and transformed over time."
- "Weathering is the process of breaking down rocks into smaller pieces, while erosion is the movement of these weathered materials by wind, water, or ice."
- "Understanding Earth Science helps us appreciate the natural world around us and how it influences our daily lives."