

## Objective

By the end of this lesson, you will be able to understand what geodes are and how they are formed.

## Materials and Prep

- A geode specimen
- A magnifying glass
- A small hammer or rock pick
- A towel or cloth
- A hard surface for cracking the geode
- Paper and crayons for drawing

## Activities

1. Introduction: Show the geode specimen to the student and explain that it is a special type of rock that contains beautiful crystals inside.
2. Observation: Use the magnifying glass to closely examine the outside of the geode. Discuss the texture and color.
3. Cracking the geode: Place the geode on the towel or cloth, and carefully strike it with the hammer or rock pick on the hard surface. Encourage the student to wear safety goggles or glasses for protection. Observe the cracks that form.
4. Exploration: Open the cracked geode and explore the crystals inside. Talk about their shapes, colors, and textures.
5. Art activity: Provide paper and crayons for the student to draw their own geode, including the outer shell and the crystals inside.

## Kindergarten Grade Talking Points

- "Geodes are special rocks that have hidden treasures inside."
- "We can use a magnifying glass to look closely at the outside of a geode and see its texture and color."
- "To crack open a geode, we need to carefully hit it with a hammer or rock pick on a hard surface."
- "Inside the cracked geode, we can find beautiful crystals of different shapes, colors, and textures."
- "Let's draw our own geodes, showing the outside shell and the crystals inside."