



BREAK-OPEN CRYSTAL GEODES

NEXT LEVEL CHALLENGES!



NAME:

1 ROCK COLLECTOR

You will need:

Pen or pencil

Rocks you find out in the world

Magnifying glass

Here's how:

1. Find small rocks that catch your eye.
2. Look closely at the rocks with your magnifying glass and make observations in your science journal or on the next page.
3. Keep the rocks in your display case or give them away as special gifts to friends.

SPECIMEN #1

Date: _____ Time of Day: _____

Location : _____

Weather/Season: _____

Observations of Specimen: _____

SPECIMEN #2

Date: _____ Time of Day: _____

Location : _____

Weather/Season: _____

Observations of Specimen: _____

SPECIMEN #3

Date: _____ Time of Day: _____

Location : _____

Weather/Season: _____

Observations of Specimen: _____

SPECIMEN #4

Date: _____ Time of Day: _____

Location : _____

Weather/Season: _____

Observations of Specimen: _____

2 DIY CRYSTAL GEODES

You will need:

Small bowl

Heat-proof mixing bowl

Boiling water (only adults should handle boiling water!)

Salt

Food coloring

Eggshell (rinsed)

Here's how:

1. Pour boiling water into the heat-proof mixing bowl.
2. Add salt into water and stir to dissolve. Add more salt until no more salt will dissolve into the water.
3. Add a few drops of food coloring and stir.
4. Place half of an eggshell into a small bowl.
5. Fill the small bowl with the salt water solution.
6. Let soak for up to a week. Crystals will form as the solution cools and water evaporates.
7. Observe the salt particles as they crystallize on the eggshell. You've made your own beautiful geode!
8. You can also try this with sugar instead of salt.
9. Another option is to find alum crystals and grow these on modeling clay.

3 WEARABLE ROCKS

You will need:

Chunks of broken geode or other rocks
Jewelry wire (20 gauge, round, dead soft)
Tool for cutting wire
Ruler
Glove (optional)

Here's how:

1. Make sure an adult is helping you! Use caution when using sharp tools!
2. Cut about 12 inches of jewelry wire with a cutting tool.
3. Use needle-nose pliers to create a small loop (1/4") with at least two wraps of wire, then wrap the loose end around the stem of the wire.
4. Wrap the wire around your rock so that it is secure.
5. Wrap the end of the wire just below the small loop you created in the beginning.
Clip any excess wire.
6. Thread your favorite cord through the loop to create a necklace.
7. Dress to impress!

