

# Experiment Number One

## Rocks and Erosion

Create your own rock erosion through this simple experiment. Rocks break down through wind, rain and movement. They can also be broken apart through freeze and thaw action. As water freezes, it expands. This can happen on ground level or deep within a rock when water has seeped into a rock. After it freezes and thaws several times, bits of rocks will erode and pieces will break off.

### What you need:

- Several different kinds of rocks, such as granite, sandstone, or limestone
- Plastic bottle or container
- Water

### What to do:

- Write down which rocks you think will break down the most when you freeze and thaw them several times and why.
- Write down your prediction.
- Place the rocks in the plastic bottle and cover them with water.
- Put the bottle in the freezer.
- When the water is frozen take it out and let it thaw.
- After the water melts, put the bottle back in the freezer.
- Repeat the process 3-5 times.

### What are your results:

Examine your rock samples carefully. Which one has changed the most? Have small particles been split off the rock by the freezing water? Was your prediction correct? Can you imagine how this experiment happens in real life all the time