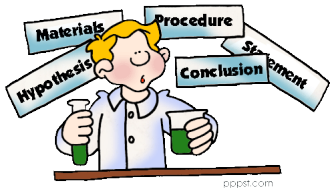
Name _____



Science Experiment: **Splitter (#124)**
Cycle 1, Week 13

Purpose: To determine how _____ can split rocks.

Hypothesis: _____

_____

Materials: small plastic bowl with tight-fitting lid
cold tap water

Procedure:

- Fill the plastic bowl to overflowing with water.
- Secure the lid.
- Place the closed container in the freezer.
- After 24 hours, remove the bowl.

Draw/Write ***Observations*** in the box.

Results:

The water has _____, expanded, and _____ the lid off the bowl.

Why:

Most substances _____ when heated and _____ when cooled. Water molecules are attracted to each other, forming a flexible chain. This ability to twist around allows liquid water molecules to crowd into smaller spaces. When the water freezes, the ice structure that forms is solid and takes up _____space than the same number of liquid water molecules. When water seeps into cracks in rocks and freezes, the expanding ice can push hard enough to _____ the rocks apart.

Taken from *Janice VanCleave's 201 Awesome, Magical, Bizarre, & Incredible Experiments.* (New York: John Wiley & Sons, 1994)