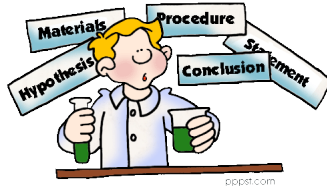


Name _____



Science Experiment:

Stretch (#130)
Cycle 1, Week 16

Purpose: To demonstrate how the effect of a _____ force.

Hypothesis: _____

Materials: balloon
marking pen (e.g., Sharpie)

Procedure:

- Draw a square on a deflated balloon.
- Divide the square into three sections.
- Use the marking pen to color the two outer sections on the square.
- Inflate the balloon and observe the markings.
- Deflate the balloon and observe the markings again.

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

A large, empty rectangular box with a black border, intended for drawing or writing observations.

Results:

The square spreads out in all directions when the balloon is _____. If the balloon has not been inflated too much, it will recover its _____ shape and size when deflated.

Why:

The rubber molecules of the balloon are being pulled apart by the pressure of the air inside. Parts of the balloon stretch more than others, causing a change in the shape of the diagram drawn on the rubber. _____ is a stretching or pulling-apart force. If the force is not too great, rocks with elastic properties like the balloon will recover their original shape and size when the force is removed. If the force is too strong, the rocks cannot remain together, and they break apart – as the balloon would if you continued to inflate it with air. When there is an earthquake, the rocks in the Earth's crust are pushed apart by this force.