



# ADVENTURES

BOY SCOUTS OF AMERICA®  
MONMOUTH COUNCIL

## BRINGING THE ADVENTURE TO YOU!

### Bears Challenge

**Dr. Professor Scout**

Objective: Scouts will be able to further their knowledge of the scientific or investigational process through hands-on experiments.



Directions:

Before ALL of these exercises, have your scout make a prediction of what they will think will happen and write it down in an observational journal! After the investigation is completed have your scout see if they were right or wrong and explain why.

1) Is Electricity sticky?

a. Have scouts create static electricity by rubbing a latex balloon or plastic/rubber comb against another material.

i. Will the comb or balloon stick to the material? Do different materials affect the results? Does the static electricity create a spark that will shock you when you touch another item?

2) Sink or Float

a. Using household objects, such as paper, quarters, pens, pen caps, toothpicks, etc, see what floats in water and what sinks? Record your findings.

i. Use other liquids and repeat the process!! You could use dish soap, olive oil, vinegar, etc.

3) Baking Soda Volcano (In an empty water bottle.)

a. If you add dish soap to the baking soda prior to the vinegar the explosion will be bigger. You also add food coloring too!

**Don't forget parents and family can participate as well!**