

# STATIC ELECTRICITY KIT

## STUDY GUIDE

### INTRODUCTION

Electricity is of two basic types: current and static. **Current electricity** involves the flow of electrons through a material while **static electricity** occurs when materials are positively or negatively charged.

All material is made of atoms that are in turn made of positively charged **protons** and negatively charged **electrons**. The protons do not move in solids but the electrons are able to move freely in some solids. When electrons build up in a material, it has a net negative charge. When there is a loss of electrons from a material, it has a net positive charge. This is static electricity. This charging of materials is also called **frictional electricity** as it is brought about by the friction of two materials rubbing together.

The **law of charges** states that unlike charges attract and like charges repel. Thus positive repels positive but attracts negative. Negative repels negative but attracts positive. Negatively charged static electricity will try to flow to a positively charged or even neutral material. This flow of static electricity often occurs suddenly in **discharges** called sparks. Lightning is an example of a static electricity discharge between the negatively charged ground and the positively charged clouds.

Materials with static electric charges, if left alone, will lose their charge over time and become neutral.

An **electroscope** is a device used to detect electrical charges. Your apparatus is a simple electroscope in that it will detect whether materials are positively or negatively charged. The pith balls will maintain a static electrical charge. The threads insulate the charge so it does not discharge to the metal hook.

### ASSEMBLY

1. Open the package which contains:

1 metal hook	1 fur friction pad
1 stand	2 balloons
1 glass rod	2 pith balls connected with a thin string
2. Insert the metal hook into the stand. Make sure the hook is standing as straight as possible.
3. Drape the string over the metal hook so that the pith balls hang down from the hook together. If the pith balls are not connected, tie them together so that they hang side-by-side about halfway between the hook and the stand base.
4. Experiments using your electroscope work best on cool dry days. If your experiments are not

working very well, wait until the weather cools and the humidity decreases. If the weather is too dry, however, the extra static electricity from your clothing might interfere with your results.

5. If the pith balls touch the metal rod of the hook, they will discharge whatever charge you have induced on them. Try holding the string below the hook to keep the balls away from the hook.
6. Discharge the pith balls after you have given them a charge by touching them with your fingers. This is perfectly safe.
7. If the threads become tangled put your finger in the gap at the top of the threads and pull down slightly until the threads unwind. However, don't touch the balls, as this will discharge their static electricity.

### ELECTROSTATIC LIST

Whenever you rub two materials together, they become electrified and develop opposite charges. The following list of materials shows how each material will become charged when rubbed with another material. The items higher up on the list will lose electrons and become positively charged while those on the bottom of the list gain electrons and become negatively charged.

For example, if a glass rod is rubbed with rabbit's fur, the glass will acquire a negative charge. However if a rubber balloon rubs the same glass rod, it will acquire a positive charge. The farther apart the materials are on the list, the greater will be the resulting static charge.

#### Positive ( + )

- |           |                    |                 |
|-----------|--------------------|-----------------|
| 1. Rabbit | 7. Cotton          | 13. Sulfur      |
| 2. Glass  | 8. Wood            | 14. Hard rubber |
| 3. Nylon  | 9. Lucite          | 15. Vinylite    |
| 4. Wool   | 10. Amber          | 16. Saran Wrap  |
| 5. Silk   | 11. Polyethylene   |                 |
| 6. Paper  | 12. Rubber balloon |                 |

#### Negative ( - )

### INDUCTION VS. CONTACT

#### Experiment 1

Charges can be **induced** at a distance or conveyed by **contact**. When a charged material is brought next to another neutral material, a charge is induced on the neutral material but this charge is not permanent. When contact is actually made between the charged material and the neutral material, the charge is imparted by contact.

1. Blow up a balloon and rub it with the rabbit's fur.
2. Bring the balloon close to the pith balls without letting the balls touch the balloon. Take the

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**David Groth, Dan Newland**



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