



## STATIC ELECTRICITY GHOST

### SCIENCE SAFETY

PLEASE follow these safety precautions when doing any science experiment.

- **ALWAYS** have an adult present.
- **ALWAYS** wear the correct safety gear while doing any experiment.
- **NEVER** eat or drink anything while doing any experiment.
- **REMEMBER** experiments may require marbles, small balls, balloons, and other small parts. Those objects could become a CHOKING HAZARD. Adults are to perform those experiments using these objects. Any child can choke or suffocate on uninflated or broken balloons. Keep uninflated or broken balloons away from children.

### INGREDIENTS

- Balloon
- White Tissue Paper
- Transparent Tape

### INSTRUCTIONS

**STEP 1:** Cut out the shape of a ghost in the white tissue paper.

**STEP 2:** Using the transparent tape, secure the tail of the ghost to a flat surface.

**STEP 3:** Inflate the balloon. Vigorously rub the balloon against your shirt. Hold the balloon close to the white tissue paper ghost and observe. Describe the cause and effect relationship of the electric interactions between the balloon and the white tissue paper ghost, which are not in contact with each other.

### EXPLANATION

The tissue paper ghost moves due to static electricity, which is a buildup of an electric charge. Rubbing the balloon against your shirt builds up negative charges on the surface of the balloon. These charges attract to the positive charges on the tissue paper ghost, causing the ghost to move.



### SCIENCE BACKGROUND

The small particles that make up matter have electric charges, which exert forces. The forces created by an electric charge do not require a pair of objects to be in contact. Protons are positively charged, while electrons are negatively charged. Opposite charges attract and like charges repel. Some objects become charged when they touch other objects. Static electricity is a buildup of an electric charge.

### I CAN STATEMENT

- ✓ I can ask questions to determine cause and effect relationships of electric interactions between two objects not in contact with each other.

### NEXT GENERATION SCIENCE STANDARDS CONNECTION

3 – Forces and Interactions

