

1.

Name _____

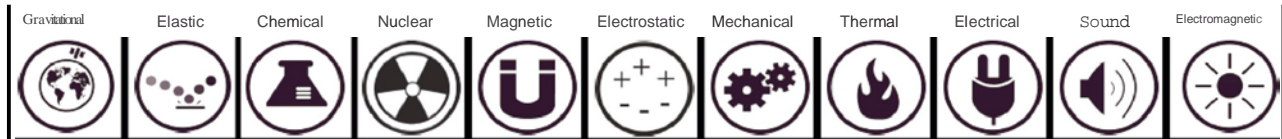
ENERGY SURVEYLAB

Station: Balloon

Objective: To determine the forms of energy on a balloon.

Material: inflated balloon, pieces of fabric, gelatin powder, paper scraps

Forms of Energy



Instructions:

Gently rub the surface of the balloon with the fabric or your hair for about 1 minute. Place the fabric to the side and place balloon near the paper scraps on your desk, observe, then remove paper. Repeat with Gelatin (placed on scratch paper). Repeat trial with your hair.

Trial 1: Drawing-Paper

Fabric Type:

Observations:

Drawing - Gelatin

Observations:

Trial 2: Drawing-Paper

Hair:

Observations:

Drawing - Gelatin

Observations:

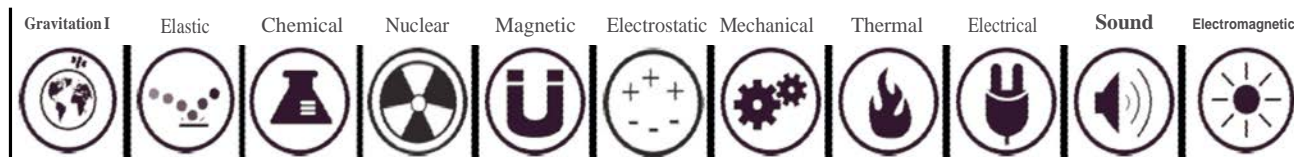
2. Highlight the forms of energy you observed at this station on the top of the page.
3. Describe how you think the length of time you rubbed the balloon affected the strength of its effects on the paper or gelatin.
4. Based on your observations, how do you think the type of material used to rub the balloon affects the strength of its effects on the paper or gelatin?
5. How do you think the length of time you rubbed the balloon impacted the distance at which it affected the paper or gelatin?

Station: Reaction

Objective: To determine the forms of energy within a reaction.

Materials: baking soda, vinegar, graduated cylinder, uninflated balloon, spoon, funnel

Forms of Energy



Instructions:

1. Pour 1 spoonful baking soda into the balloon by using the funnel.
2. Fill the cylinder with 50 ml of vinegar
3. CAREFULLY slip the balloon over the cylinder's opening.
4. Invert the balloon so that the baking soda mixes with the vinegar
5. Describe and draw the changes you see in the bottle and cylinder.

Balloon:



Cylinder:



6. Highlight the forms of energy you observed at this station on the top of page.
7. What caused this release of energy? What was the bi-product?