

## Static Electricity Introduction

1. Read information about static electricity out from the Student Literacy found in the 2005 State of Utah Teacher Science Resource Book.
  2. Blow up your balloon about the size of a soft ball and tie the end.
  3. Don't do anything to the balloon by rubbing it anywhere.
  4. Tie a string around the tied end of the balloon.
  5. Put a big X on one side of the balloon.
  6. Rub the side of the balloon with an X on your hair.
  7. With a partner, hold the string so the two X's are facing each other.
  8. What do you see happening?
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9. While hanging the balloons next to each other, put a piece of paper between them. What do you see happening?
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10. By rubbing your hair with the balloon, see if it will stick to your hair. Why will it?
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11. By rubbing your hair, go around the room and see what he balloon with stick to. Write them down.
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12. Write down some of the things that the balloon wouldn't stick to.
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13. Why do you think that the balloon stuck to some things and didn't stick to other things?
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14. Rub your hair each time you put the balloon into these particles. Put the number in the space of how many it picked up.

	Tissue Paper	Rice Krispies	Rice Puffs	Bits of Paper	Styrofoam	Cheerios
Hair						

## Static Charge Experiment

1. On your team, pick one of the items to be charged to test static electricity.
2. Rub your item with one of the pieces of material.
3. Put it in one of the particles.
4. Count the number of particles it picked up and record it in the proper place.
5. Rub your hand over the charged item to discharge it.
6. Repeat #2 through #5 until you are finished.
7. When you are finished, answer the question below.

### Answer These Questions

1. What was the item you charged? \_\_\_\_\_
2. Which particles did the charged item pick up the most of?  
\_\_\_\_\_
3. Of the most particles that were picked up, what do these particles have in common?  
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4. Of the particles that wee not picked up well, what do these particles have in common?  
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5. What are your conclusions with your experiment?  
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### **Static Electricity Data Sheet—**

	Tissue Paper	Rice Krispies	Rice Puffs	Bits of Paper	Styrofoam	Cheerios
Wool						
Cotton						
Silk						
Imitation Fur						
Felt						

## Static Electricity Data Sheet—Wooden Pencil

	Tissue Paper	Rice Krispies	Rice Puffs	Bits of Paper	Styrofoam	Cheerios
Wool						
Cotton						
Silk						
Imitation Fur						
Felt						

## Static Electricity Data Sheet—Plastic Spoon

	Tissue Paper	Rice Krispies	Rice Puffs	Bits of Paper	Styrofoam	Cheerios
Wool						
Cotton						
Silk						
Imitation Fur						
Felt						

## Static Electricity Data Sheet—Metal Spoon

	Tissue Paper	Rice Krispies	Rice Puffs	Bits of Paper	Styrofoam	Cheerios
Wool						
Cotton						
Silk						
Imitation Fur						
Felt						

### Static Electricity Data Sheet—Comb

	Tissue Paper	Rice Krispies	Rice Puffs	Bits of Paper	Styrofoam	Cheerios
Wool						
Cotton						
Silk						
Imitation Fur						
Felt						

### Static Electricity Data Sheet—Paper Strip

	Tissue Paper	Rice Krispies	Rice Puffs	Bits of Paper	Styrofoam	Cheerios
Wool						
Cotton						
Silk						
Imitation Fur						
Felt						

### Static Electricity Data Sheet—Drinking Straw

	Tissue Paper	Rice Krispies	Rice Puffs	Bits of Paper	Styrofoam	Cheerios
Wool						
Cotton						
Silk						
Imitation Fur						
Felt						