Static Electricity Introduction

Directions:

- a. Blow up your balloon about the size of a soft ball and tie the end.
- b. Don't do anything to the balloon by rubbing it anywhere.
- c. Tie a string around the tied end of the balloon.
- d. Put a big X on one side of the balloon.

1.	Rub the side of the balloon with an X on your hair. With a partner, hold the string so the two X's are facing each other. What do you see happening?
2.	Why did the two balloons do this?
3.	Rub your hair with the balloon, and put the balloon back on your hair. What happened?
4.	Why did the balloon do this?
5.	Hang your balloon next to your partner's balloon again. Put a piece of paper between them. What do you see happening?
6.	Why did the balloons do this?

7.		ng your hair, t it won't sticl		ne room and	see what t	he balloon w	ith stick to
Stı	ıck to:						
W	on't stick t	50 :					
8.	Why do y things?	ou think that	the balloon	stuck to sor	ne things a	nd didn't stic	k to other
9.	-	hair 10 time in the space o		-		-	
	Hair	Tissue Paper	Rice Krispies	Rice Puffs	Bits of Paper	Styrofoam	Cheerios
	. Why wer	the differer				om most to lea	ast.
12	. Of the n	nost particles	s that were	picked up,	what do	these particl	es have ir
13	. Of the ol	bjects that w	vere not pic	ked up wel	l, what do	these partic	les have ir

Static Charge Experiment

Directions:

- a. Pick one of the items to be charged to test static electricity.
- b. Rub your item 10 times with one of the pieces of material.
- c. Put it in one of the objects.
- d. Count the number of those objects it picked up and record it in the proper place.
- e. Rub your hand over the charged item to discharge it.
- f. Repeat "b" through "e" until you are finished.
- g. When you are finished, answer the question below.

Static Electricity Data Sheet—

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

Answer These Questions

		Allswei These Que	<u>:5tioii5</u>								
1.	What was the	item you charged?									
2.	Which two pa	Which two particles did the charged item pick up the most of?									
W	ool	Cotton	Silk								
Im	itation Fur	Felt									
3.	Of the most common?	particles that were picked up,	what do these particles have in								
4.	Which two pa	rticles did the charged item pick	up the least of?								
W	ool	Cotton	Silk								
Im	itation Fur	Felt									
5.	Of the least process.	particles that were picked up,	what do these particles have in								
6.	What are you	r conclusions with your experim	ent?								

Static Electricity Data Sheet—Wooden Pencil

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

Static Electricity Data Sheet—Plastic Spoon

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

Static Electricity Data Sheet—Metal Spoon

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

Static Electricity Data Sheet—Comb

	Tissue	Rice	Rice	Bits of	Styrofoam	Cheerios
	Paper	Krispies	Puffs	Paper		
Wool						
0.11						
Cotton						
6:11						
Silk						
Imitation						
Fur						
Felt						

Static Electricity Data Sheet—Paper Strip

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

Static Electricity Data Sheet—Drinking Straw

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