


## Static Electricity Stations

Station	Objects	What Happened? ATTRACT or REPEL
1	- Rub 2 <b>balloons</b> with <b>fur</b> - Bring them close together	
2	- Rub 2 strips of <b>overhead</b> with <b>plastic</b> bag - Bring them close together	
3	- Rub <b>ebonite</b> rod with <b>fur</b> - Place near <b>sand</b>	
4	- Rub 1 piece of <b>overhead</b> with <b>plastic</b> bag - Rub 1 piece of <b>overhead</b> with <b>fur</b> - Bring them close together	
5	- Rub 1 piece of <b>overhead</b> with a <b>plastic</b> bag - Place plastic near <b>confetti</b>	
6	- Rub <b>overhead</b> strip with <b>fur</b> - Bring it near <b>confetti</b>	

Material	Charge Tendency
human skin	
rabbit fur	
acetate	
glass	
human hair	
nylon	
wool	
cat fur	
silk	
paper	
cotton	neutral
wood	
amber	
rubber balloon	
vinyl	
polyester	
ebonite	-

Use your note and results to answer the following questions in full sentences.

1. What type of **charge** does the **balloon** develop after being rubbed with fur?
2. What type of **charge** does the **acetate** develop after being rubbed with plastic?
3. What happens when you bring 2 items together that have the **same** charge? Give an example.
4. What happens when you bring 2 items together that have **opposite** charges? Give an example.
5. Can a charged item attract something that has no charge? How do you know?
6. Give 2 examples where static electricity is useful.
7. Why will a balloon stick to the wall after rubbing it on your clothes? Use diagrams to show what happens.