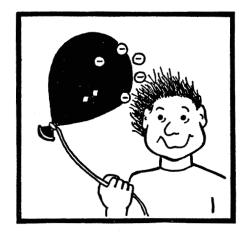
STATIC ELECTRICITY

1. How Does It Work?

When you rub your head with a balloon, the balloon will stick to the wall - why? The reason is that the friction made when two different objects are rubbed together creates static electricity. Three ways to tell if static electricity is present are:

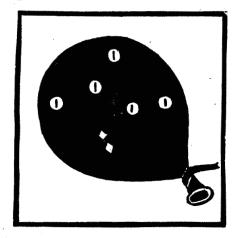
- 1) it sparks and can shock you
- 2) it makes a crackling sound
- 3) it causes things to stick together.

Step 1



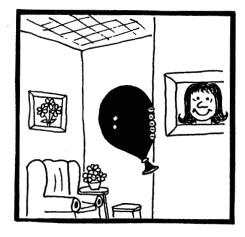
Rubbing causes the balloon to "steal" electrons from your hair.

Step 2



The balloon has a buildup of electrons so it has a negative charge. Your hair has lost electrons so it becomes positively charged.

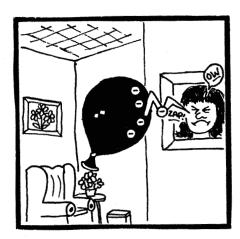
Step 3



Because opposites attract, the negatively charged balloon will stick to the wall

Step 4

or



If there are enough electrons on the balloon, they will try and "jump" to the wall and will make a small spark

2. Where Does Static Electricity Occur? Everyday examples include:

dragging rubber-soled shoes can "steal" electrons from the carpet and you can usually shock someone with your buildup of



2) certain types of cloth rubbing together in the dryer will "steal" electrons causing clothes to stick together (static cling).



3) electrons collect on your TV screen and produce static electricity. (This why there is so much dust on most TV screens)

