**Balloon Simulation**

Phet.Colorado.edu Balloon and Static Electricity

1)  Look at the balloon. What can you say about its charge? (Hint: count both types of charges)

2)  Can you get it to change its charge? If so, HOW did you do this, and what charge did it become?

3)  Where did that charge *come from*?

4)  What happened to the sweater? How did it get charged?

5)  Bring the balloon in the middle, between the sweater and the wall. What happens to the balloon when you let it go? Explain.

6)  What is the overall charge of the wall?

7)  What do you think will happen when the balloon is brought close to the wall? Predict first.

8)  Bring the balloon in contact with the wall. What happens to the charges in the wall?

9) Let go of the balloon. What happens? Explain.

10)  Reset, and see if there are any other ways to charge the balloon. Describe everything that you tried.

11)   Select “Two balloons”. What can you tell about the overall charge of all the objects in your simulation window?

12)  Select “Show charge differences”. Rub each balloon against the sweater. What happens to each one of them?

13)  Why are the two balloons stuck on the sweater?

14)  Try to get one balloon off the sweater by using the other balloon. Can you do it? If yes, explain why this is possible.

**Balloon Simulation**

Phet.Colorado.edu Balloon and Static Electricity

1)  Look at the balloon. What can you say about its charge? (Hint: count both types of charges)

2)  Can you get it to change its charge? If so, HOW did you do this, and what charge did it become?

3)  Where did that charge *come from*?

4)  What happened to the sweater? How did it get charged?

5)  Bring the balloon in the middle, between the sweater and the wall. What happens to the balloon when you let it go? Explain.

6)  What is the overall charge of the wall?

7)  What do you think will happen when the balloon is brought close to the wall? Predict first.

8)  Bring the balloon in contact with the wall. What happens to the charges in the wall?

9) Let go of the balloon. What happens? Explain.

10)  Reset, and see if there are any other ways to charge the balloon. Describe everything that you tried.

11)   Select “Two balloons”. What can you tell about the overall charge of all the objects in your simulation window?

12)  Select “Show charge differences”. Rub each balloon against the sweater. What happens to each one of them?

13)  Why are the two balloons stuck on the sweater?

14)  Try to get one balloon off the sweater by using the other balloon. Can you do it? If yes, explain why this is possible.