**Station 1: Electric Potential Energy**

1. Charge the balloon by rubbing it quickly on a piece of fabric for 10 seconds.

2. Place the empty Coke can on its side on the piece of tape on the table.

3. SLOWLY move the balloon so that it’s close to the can but not actually touching it.

4. Write down what happens. (complete sentences!)

5. Repeat stets 1-4 but with a full Coke can instead of an empty one.

6. Write down what happens. (complete sentences!)

7. Write down why you think the cans had different results. (complete sentences!)

8. Write how this activity relates to **electric potential energy**? (complete sentences)

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**Station 2: Sticky Balloon!**

1. Charge the balloon by quickly rubbing a piece of fabric on it for 10 seconds. Gently place the balloon on the wall. Write down how long it sticks to the wall.

2. Charge the balloon by gently and quickly rubbing it on the wall for 10 seconds. Let go of the balloon and write down how long it sticks to the wall.

3. Charge the balloon again with the fabric for 10 seconds. Stick the balloon to another balloon that is not charged by fabric. Write down how long it sticks.

4. Charge the balloon both balloons by rubbing them together gently but quickly for 10 seconds. Stick the balloons together. Write down how long they stick.

5. Why would you have different results for 1 and 2 and also for 3 and 4? Use terms that you have learned from this chapter! (complete sentences)

**Station 3: Static and Hair**

1. Sit in a chair. Have someone GENTLY but QUICKLY rub the balloon on your head for 10 seconds then SLOWLY pull the balloon straight up. Write down what happens. (complete sentences)

2. Do this again, but this time when you raise the balloon so that the hair is standing on end, don’t move the balloon away any further! Time how long the hair will stand on end and **write down the times for each person in your group.**

3. Why did you get different (or the same) times for each person?

4. Write why you think the hair wouldn’t stay “standing up” as long as the balloon was over the person’s head? (complete sentences)

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**Station 4: Electricity Terms**

Write down how the following words relate to electricity and electric current. You may use your books. Write in complete sentences!

1. Neutron 2. Electron 3. Volt 4. Lightning 5.5. Charge