

Names _____

Inflate a single balloon. Give the balloon a static electric charge by rubbing it with some synthetic cloth. Try to get the balloon to stick to a ceiling tile. Will the balloon stick to the metal track holding up the ceiling tiles? Try to explain what is going on. _____

Inflate a second balloon. Hang the two balloons from a 4m piece of fishing line attached in the middle to the ceiling. Charge the balloons. Hold the two sides of the fishing line a meter apart. Slowly let the balloons get closer and closer. What do you observe when you have completely let go? _____

Now, attach two 2m pieces of fishing line to the ceiling 0.6m apart. Hang two balloons, one on each piece of fishing line. Try to find a way to get the two balloons to attract each other. You can measure this by noting if the centers of the balloons are closer than 0.6m.

(google "static electric charge on balloon"),

(google "how to get two balloons to attract")

How did you accomplish the task? _____

_____.