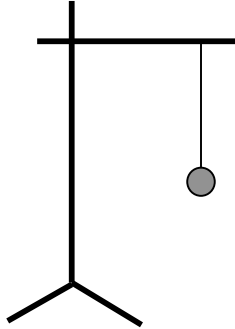


Static Electricity Elicitation Question

1. How many types of charge are there? Explain how you know. (E.g., what evidence do you have for your answer?)
2. Below, a small ball is hanging from a string. The ball is known to be “charged.”



Each of the following objects is brought near, but does not touch the hanging ball. For each of the objects, predict whether the ball will attract, repel or do nothing. Give an explanation for each of your predictions. If your prediction depends on some unknown information, indicate what information you need.

- a. an identically charged ball hanging from a string
- b. a paperclip
- c. a Styrofoam cup
- d. a north pole of a bar magnet
- e. a south pole of a bar magnet