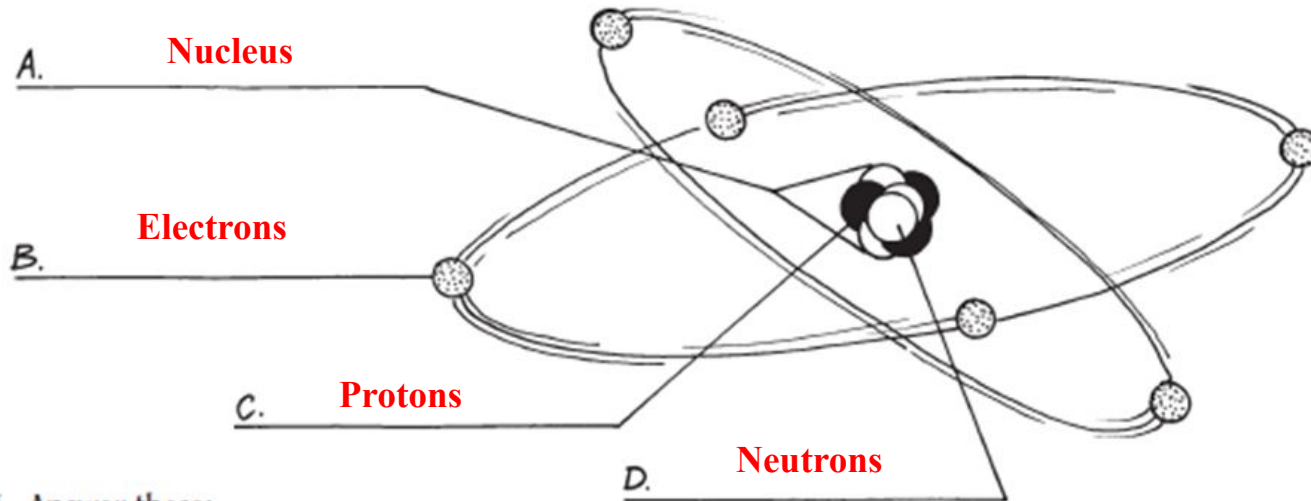


Forces Quiz Study Guide Answers

1. What is an atom and what are the parts that make up the atom?

An atom is the smallest piece that matter can be broken into.

I. Label the parts of this atom (nucleus, protons, electrons, neutrons).



II. Answer these:

Neutrons

1. the part of the atom that carries no electric charge

Protons

2. the part of the atom that carries a positive charge

Electrons

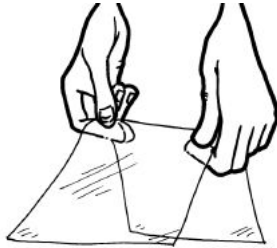
3. the part of the atom that carries a negative charge

2. How could you design an experiment to compare the strength of different magnets?

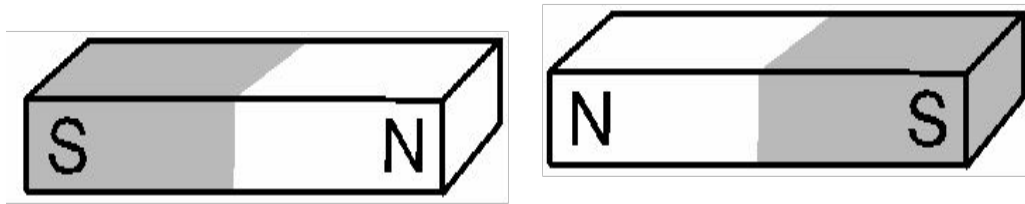
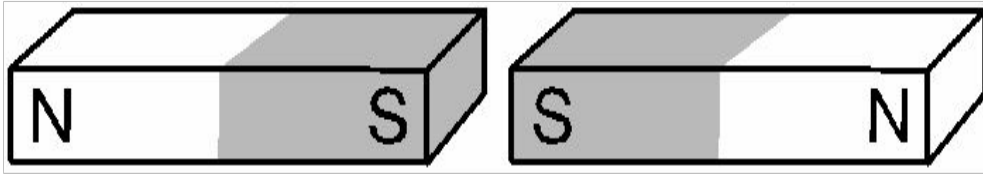
Design an experiment to see how far away two magnets can be & still be attracted to each other. Example: Keeping putting index cards between the magnets to move them further away from each other.

3. Give an example that shows what happens when two objects with the same charge are brought together.

If you charge a piece of plastic wrap and pick it up in the center the plastic wrap will levitate/push away from each other. Like charges repel each other.



4. If you wanted two magnets to repel each other what would you do to cause this to occur? Draw it in the box below.



5. What happens to magnetic and electric forces when the distance between objects increases?

When the distance between objects increases the magnetic and electric forces get weaker.