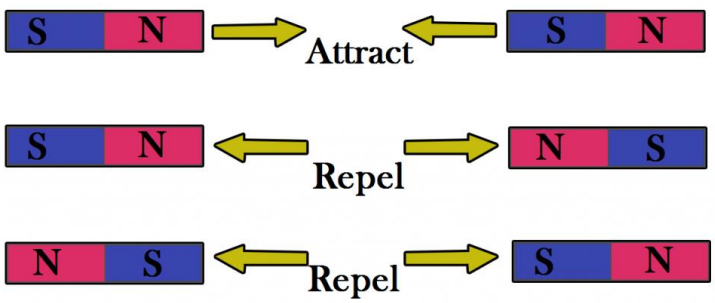
Name: _____ Date: _____

Push or Pull Forces

Gravity is an example of a force that always pulls downward. Buoyancy is an example of a force that always pushes upward. Gravity does not push, buoyancy does not pull. Now you will learn about two forces that can sometimes push and sometimes pull.

Magnetic Force

Magnets attract some kinds of metals. They pull these metals toward them. This pulling force is called magnetic force or magnetism. Magnetic force can also be a pushing force. The ends of a magnet are called "poles," one end is the "north pole" and one is the "south pole." If you get two magnets and put them together so that the two ends are the same pole they will push each other away, or "repel" each other. If the poles are different they will pull or "attract."



Static Electric Force

Just like magnetic force, static electric force can sometimes pull and sometimes push. Objects with different charges pull toward each other. Objects with the same charge push away from each other. You can create a static electric force by rubbing certain materials together. Lightning is another example of a static electric force.

Types of Forces Review

1. List the 6 different forces that we have talked about.

   _____

   _____

   _____

   _____

   _____

   _____

2. Name one force that is always a pulling force.

   _____

3. Name one force that is always a pushing force.

   _____

4. What are two forces that can sometimes push or sometimes pull?

   _____

   _____

5. What has to be the same for magnets to push away from each other when they are brought close?

   _____

6. When a static electrical force is pulling, are the charges the same or different?

   _____