Science Virtual Learning

6th Grade Science/Magnetism

April 08, 2020

6th Grade Science
Lesson: 4-8-2020

Learning Target:

- I can understand what magnetism is and how it applies to my surroundings.

Let's Get Started:

Starting Video

You will need pencil and paper!

<u>Warm-Up</u>: Some things can be picked up by magnets. Make a list of things similar to what is on the right. Put a check mark next to the item you think can be picked up by a magnet. You don't need to look up the answers. Check your answers on the next slide.

Object	Can it be picked up by a magnet?
cloth	
steel (metal)	
aluminum (metal)	
glass	
pencil lead (graphite)	
iron (metal)	
silver (metal)	
other magnets	

The best answer is steel, iron and other magnets. Generally magnets pick up iron, nickel, cobalt and alloys made of these, like steel. Neodymium, a rare Earth element, is also magnetic. Not all metals interact with magnetic fields.

Object	Can it be picked up by a magnet?
cloth	
steel (metal)	x
aluminum (metal)	
glass	
pencil lead (graphite)	
iron (metal)	x
silver (metal)	
other magnets	x

Key Terms Review

Magnetism: a physical phenomenon produced by the motion of electric charge, resulting in attractive and repulsive forces between objects.

Key Terms Review

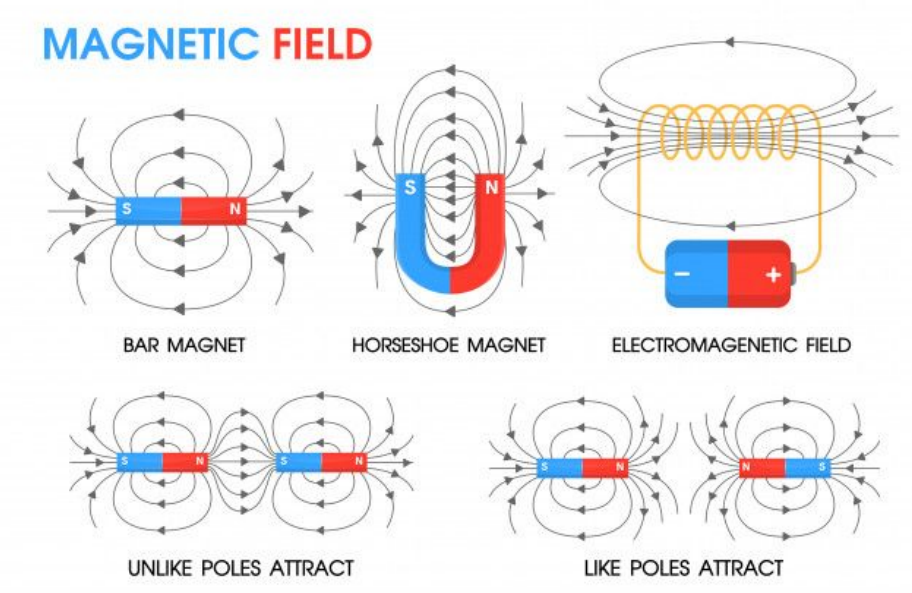
Poles: each of the two points or regions of an artificial or natural magnet to and from which the lines of magnetic force are directed.

Magnets have both north and south poles. In order for a magnet to attract to another magnet it take the attraction of both a north and south pole.

Key Terms Review

Magnetic Field: a region around a magnetic material or a moving electric charge within which the force of magnetism acts.

The diagrams below show the magnetic field for each type of magnet.



Practice 1

1. Look around your house and see how many objects are magnetic.
2. Then check out the interactive house to see how many objects are magnetic in a house.
3. How many objects were you able to find?
4. Share you finding with someone in your household.

Practice 2

1. Watch the Bill Nye Video about Magnetism
2. While watching use a piece of paper to take notes in 3, 2, 1 formate.
    - 3 things you learned from the video
    - 2 questions you still have
    - 1 topic you can teach or explain to someone else.

Additional Practice

1. Read the ReadWorks article called: The Sad Tale of the Lonely Magnet
2. Once finished reading the article answer the 10 response questions on a piece of paper.
3. Check your answers using the Answer Key