Name _____ Date _____ Class _____

What is Magnetism? *(continued)*

2. Circle the letter of the mineral in rocks that is magnetic.

   a. magnesia
   b. polaris
   (c.) magnetite
   d. iron

3. The attraction or repulsion of magnetic materials is called magnetism.

4. Is the following sentence true or false? Magnetic rocks are known as lodestones. TRUE

5. What are three properties that magnets have?

   a. Magnets attract iron and materials that contain iron.

   b. Magnets attract or repel other magnets

   c. one part of a magnet will always point North when allowed to swing freely.

Magnetic Poles

6. Any magnet, no matter what its shape, has two ends, each one called a(n) magnetic pole.

7. Circle the letter of each sentence that is true about magnetic poles.

   (a.) One pole of a magnet will point north.
   b. Both the north and the south pole always point north.
   c. Two north poles make up a pair of unlike, or opposite, poles.
   (d.) The pole that points south is labeled the south pole.

8. Where is the magnetic effect of a magnet strongest?

   at the poles of the magnet

9. How are magnetic poles labeled?

   "North pole" and "south pole"

10. Complete the table below by writing whether the magnets in each pair described in the first column will repel or attract each other.

Magnetic Attraction	
Situation	**Repel or Attract?**
Two south poles are brought together.	a. Repel
A north pole is brought to a south pole.	b. Attract
Two north poles are brought together.	c. Repel
A south pole is brought to a north pole.	d. Attract

11. What is magnetic force?
The attraction or repulsion between magnets. A magnetic force is produced when magnetic poles interact.

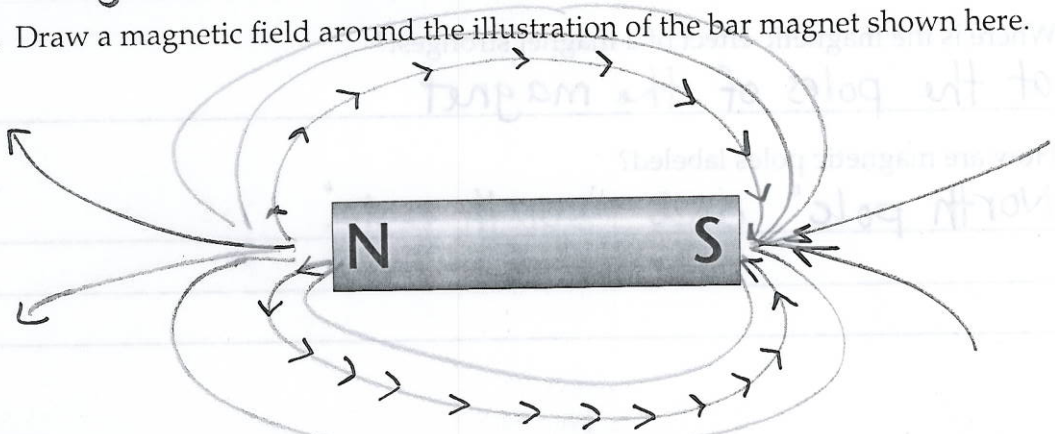
12. Is the following sentence true or false? Any material that exerts magnetic force is considered a magnet.
TRUE

Magnetic Fields

13. The region of magnetic force around a magnet is known as its magnetic field.

14. What are the lines called that map out the magnetic field around a magnet?
magnetic field lines

15. Draw a magnetic field around the illustration of the bar magnet shown here.



16. When the magnetic fields of two or more magnets overlap, what is the result?
A combined field