

ALL ABOUT MAGNETS

Name: _____

Date: _____

Class: _____

Section 1: True or False.

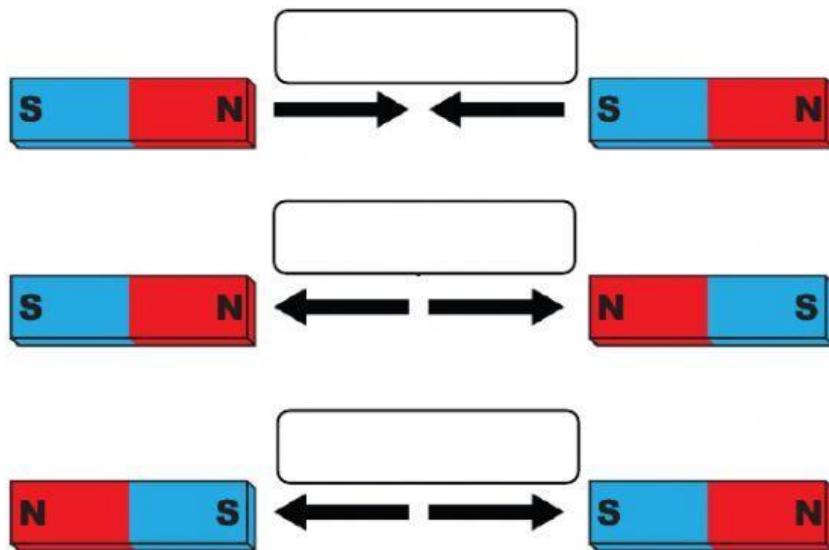
Instructions: Write 'T' on the line if the statement is TRUE and 'F' on the line if the statement is false.

1. A magnet produces a magnetic field.
2. Magnets can attract nickel, silver and cobalt.
3. Magnets normally have a north-seeking pole and a south-seeking pole.
4. Unlike poles do not attract.
5. Like poles do not attract.
6. If the north pole is placed with the north pole of another magnet, they will attract.
7. Magnets suspended on a string will always lie in a east-west direction.
8. Plastic cannot be attracted by a magnet.
9. Staples can be attracted by magnets.
10. Watches made of pure silver and gold will not attract a magnet.

Section 2: Label the shapes of the magnets using their correct name.



Section 3: State whether these magnets would **attract or repel**.



Section 4: Use the words in the word bank to fill in the blanks.

| | | | | | |
|-----------|---------|-----------|-------|-------|-------|
| Permanent | Attract | Temporary | Repel | Poles | Field |
|-----------|---------|-----------|-------|-------|-------|

1. The opposite poles of a magnet will _____ each other.
2. If two south poles of a magnet are placed together, they will _____ each other.
3. The area around a magnet which the magnetic strength is felt is called the magnetic _____.
4. The magnetic field is strongest at the _____.
5. _____ magnets lose its magnetism (demagnetize) when its power source is removed.
6. _____ hold their magnetism for a very long period of time.

Section 5: Label the parts of the electromagnet.

