

Attraction and Repulsion Between Magnets

1. Fill in the Blanks:

- a. Like poles of magnets _____ each other, while unlike poles _____ each other.
- b. The region around a magnet where it exerts its magnetic force is called the _____ field.
- c. The _____ of a magnet is its ability to attract objects made of iron, nickel, and cobalt.
- d. If you break a bar magnet into two equal pieces, each piece will become a new _____ with its own north and south poles.
- e. The strength of a magnet is usually measured in units called _____ .

2. True or False:

- a. Magnets always have two poles, a north pole and a south pole.
- b. Like poles of magnets attract each other.
- c. Unlike poles of magnets repel each other.
- d. Magnets can attract materials like plastic, wood, and paper.
- e. The Earth's magnetic field is responsible for making compass needles point towards the north.

3. Explain the term 'magnetic field' and how it is related to the attraction and repulsion between magnets.
