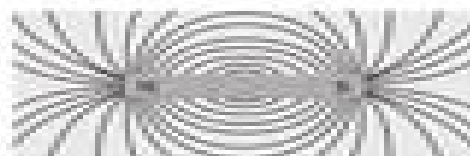


SECTION 1 Magnets and Magnetism *continued***MAGNETIC FIELDS**

A magnetic field exists in the region around a magnet in which magnetic forces can act. We can show the shape of a magnetic field with lines drawn from the north pole of a magnet to the south pole. **53**



Magnetic field lines show the shape of the magnetic field around a magnet.

These lines map out the magnetic field and are called *magnetic field lines*. The closer together the field lines are, the stronger the magnetic field is. The lines around a magnet are closest together at the poles. That's where the magnetic force on an object is strongest. **54**

What Causes Magnetism?

Some materials are magnetic. Some are not. For example, a magnet can pick up paper clips and iron nails. But it cannot pick up paper, plastic, pennies, or aluminum foil. Whether a material is magnetic depends on the material's atoms.

ATOMS AND DOMAINS

All matter is made of atoms. Electrons are negatively charged particles of atoms. As an electron moves around, it creates a magnetic field. The atom has a north and south pole. In materials that are not magnetic, magnetic fields of the atoms cancel each other out.

But in materials such as iron, nickel, and cobalt, groups of atoms are in tiny areas called *domains*. The north and south poles of the atoms in a domain line up and make a strong magnetic field. Domains are like tiny magnets of different sizes within an object. Most of the domains must line up for the object to be magnetic. **55**



If the domains in an object are not aligned, the magnetic fields cancel. The object is not magnetic.



If the domains in an object are aligned, the magnetic fields combine. The object is magnetic.

READING CHECK

5. Describe Magnetic field lines point in what direction?

READING CHECK

2. Describe When looking at magnetic field lines, how can you tell where the field is strongest?

READING CHECK

8. Explain Why is iron magnetic, but copper and aluminum are not?

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