Electricity and Magnetism

UNIT 5

1. Classify each picture: Magnetism (M) or Electricity (E).

M E

M E

M E

M E

M E

M E

2. Read the text and fill in the missing words.

Electricity and magnetism are all around us. We use _____ in our everyday lives as a _____ for machines. We use magnets to keep doors closes, and to _____ metals from other materials in recycling plants. In hospitals, magnetic resonance imaging (MRI) machines help doctors to diagnose illnesses. Electricity and magnetism are both produced by a process that involves _____and _____.

All matter consists of atoms. Each atom has a nucleus with protons and neutrons. Electrons orbit the _____. Protons have a _____ charge that attracts the electrons, which have a _____ charge. As a result, electrons orbit the nucleus because they are attracted to the _____. When electros move from the orbit of one atom to the orbit of another atom, electric _____ is produced. When electric current flows through a wire, a _____ field is produced. So electricity and magnetism are produced by the same process: a flow of electrons. Electricity and magnetism are two aspects of the same force. We call this force _____.

Separate

Positive

Electromagnetism

Electricity

Current

Magnetic

Nucleus

Power Source

Negative

Protons

Matter

Atoms