

### **Vocabulary for Unit 3**

Universal Force – forces which act equally on all things and which cannot be shielded against. – Electromagnetic and Gravitational force

Gravitational Force – the attractive force between any two objects of mass.

Electrical Force – the force of attraction or repulsion between objects due to charge.

Electrical Field – the region around a charged object in which other charged objects experience an electric force.

Electric Charge – property of matter that results in an attractive or repulsive force when near other charged matter.

Magnet – an object that produces a magnetic field, or has the ability to exert forces on magnets or other magnetic material.

Magnetic Force – the force exerted between magnetic poles, producing magnetization.

Magnetic Field – a region where a magnetic force can be detected, and acts upon other magnets.

Electromagnet – magnet whose magnetic field is produced by the flow of electric current and disappears when the current ends.

Motor – an arrangement of coils and magnets that converts electric current into mechanical power.

Generator – a device that produces voltage (electricity) by moving a conductor through a magnetic field.