

PHYSICS DEFINITIONS GRADE 10 - FILL IN THE MISSING TERM

ELECTROSTATICS, CIRCUITS, AND MAGNETISM

ELECTROSTATICS:

Principle of conservation of charge – the _____ charge of an _____ system remains _____ during any physical process

Principle of charge quantization – all charges in the universe consist of an _____ of the charge on one _____

Polarisation – the _____ or _____ polar separation of positive and negative electric charge in a system

CIRCUITS:

Potential difference – the _____ transferred per unit electric _____ flowing through it

Emf – the _____ done per unit _____ by the source

Terminal potential difference – the _____ measured across the terminals of a _____ when charges are flowing in the circuit

Current – the _____ of _____ of _____

Resistance – the _____ of the _____ across a resistor to the _____ current in the resistor / the _____ to the flow of electric _____

MAGNETISM:

Magnetic field – a _____ in space where a magnet or ferromagnetic material will experience a _____

Ferromagnetic materials – materials that are _____ attracted by magnets and are easily magnetised

Non-contact force – a force exerted on an object without _____ the object

Electric field – a _____ in space where an electric charge will experience an _____

Gravitational field – a _____ in space where a mass will experience a _____ gravitational _____