



Artery

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Type of blood vessel that carries blood **away** from the heart

Vein

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Type of blood vessel that carries blood **towards** the heart

Capillary

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Type of blood vessel that is one cell thick and important for gaseous exchange

Limewater

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Turns milky in the presence of carbon dioxide





Trachea

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The tube that carries air from the mouth to the bronchiole

Bronchus

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The two tubes that branch off the trachea into each lung

Bronchiole

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Smaller branches off the bronchi to carry air to all the alveoli

Alveoli

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Small air sacs in the lungs where gaseous exchange occurs





Respiration

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The process of releasing energy from food

Inhalation

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Breathing in

Exhalation

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Breathing out

Oxygen

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The gas moving from the alveoli to the bloodstream during inhalation





**Carbon
Dioxide**

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The gas moving from the bloodstream to the alveoli for exhalation

Heart

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Pumps blood around our bodies

**Pulmonary
Artery**

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The blood vessel that carries blood from our heart to our lungs

Vena Cava

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The blood vessels that bring blood back to our heart from the rest of our body





Pulmonary Vein

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The vessel that brings oxygenated blood from the lungs to the heart to be pumped around the body

Aorta

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The vessel that pumps oxygenated blood around the body from the heart

Septum

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The part of the heart that separates the left atrium and ventricle from the right atrium and ventricle

Valves

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Present between the atrium and ventricle and are responsible for the clicking sounds of the heart





Red Blood
Cells

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Carry oxygen in
the blood

Plasma

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The liquid part of
blood

White
blood cells

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Cells in the blood
that fight infection

Right
Ventricle

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Chamber of the heart
that pumps blood to
the lungs





Left
Ventricle

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Chamber of the heart
that pumps blood all
around the body

Right
Atrium

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Chamber of the heart
that the vena cava
brings deoxygenated
blood to

Left Atrium

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Chamber of the heart
that the pulmonary
vein brings
oxygenated blood to

Pulse

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The rhythm of the
heartbeat felt in
arteries near the skin's
surface eg at the wrist





Digestion

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The breakdown
and absorption
of food

Oesophagus

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Brings food from
the mouth to the
stomach

Stomach

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Churns and mixes
food, produces HCl to
help break food down

Iodine

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Chemical used to test
for the presence of
starch





Amylase

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The enzyme in saliva that breaks starch down to maltose

Liver

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Produces bile, aids in digestion and breaks down fat

Large Intestine

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Reabsorbs water from digested food and carries faeces to the anus to be egested

Enzyme

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A biological catalyst





Pancreas

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Produces
digestive
enzymes

**Small
Intestine**

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Absorbs nutrients
from food into the
bloodstream

Ecology

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The study of plants
and animals and their
interaction with the
environment

Interdependence

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When organisms
rely on each other
to survive





Vertebrates

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Animals that
have a backbone

Invertebrates

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Animals that do
not have a
backbone

Producers

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Organisms that
make their own
food

Consumers

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Organisms that
eat other plants
or animals





Decomposers

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Organisms that break down dead plants or animals

Competition

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Organisms needing the same resource, e.g. water, sunlight or prey

Habitat

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Where an organism lives

Biuret Solution

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Used to test for the presence of protein





Benedict's Solution

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Used to test for the presence of reducing sugars

Food Pyramid

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Diagram used to help choose number and size of portions from each food group

Agar

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Food supply and growing medium for microorganisms in petri dishes

Control

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Used in experiments to be used as a comparison to ensure a fair test





Microorganism

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Living things that cannot be seen by the naked eye

Phototropism

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A plant's growth response to light

Geotropism

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A plant's growth response to gravity

Xylem

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The tissue that carries water in plants





Phloem

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Vessels that carry food in a plant

Anther

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The part of the flower that produces the male gamete

Ovule

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The part of the flower that produces the female gamete

Zygote

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Cell formed when the male and female gamete combine





Germination

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When a plant begins to sprout up from a seed

Water + Carbon Dioxide



Glucose + Oxygen

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Word equation for photosynthesis

Oxygen + Glucose



Carbon Dioxide + Water Vapour + Energy

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Word equation for respiration

Transpiration

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The loss of water from a plant through the stomata (pores) of the leaves





Chlorophyll

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The pigment that is responsible for the green colour of leaves

Chloroplasts

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The organelle in the plant where photosynthesis occurs

Pollination

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The transfer of pollen from the anther of one plant to the stigma of another plant

Testa

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The outside coat of a seed





Endosperm

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Tissue produced inside a seed that can be used as a source of nutrition during germination

Ovule

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The place where fertilisation occurs in the plant

Radicle

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The part of the germinating seed that always grows downwards

Zygote/Seed/Fruit Formation

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Follows fertilisation in flowering plants





Methods of Waste Management

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1. Composting
2. Incineration
3. Landfill
4. Recycling

Fossil Fuel

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A natural fuel formed from the remains of living organisms

Deforestation

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The clearing of a wide area of trees that has a detrimental impact on the environment

Pollution

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The presence of a substance that has poisonous effects on the environment



JC SCIENCE – Key Definitions



Egg

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Human female
sex cell

Sperm

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Human male
sex cell

Ovary

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Where the egg in the
female reproductive
system is produced

Testes

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Where the sperm in
the male
reproductive system
is produced

Cut dotted horizontal lines. Fold vertical line.





**Fallopian
Tubes**

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The site of
fertilisation of the
male and female
gamete

Menstruation

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The process that
occurs on Day 1 of
the menstrual cycle

Ovulation

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The process that
occurs on or near
Day 14 of the
menstrual cycle

23 pairs

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Number of pairs of
chromosomes that are
present in the nucleus
of the human cell





Genes

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The parts of chromosomes that control inheritable characteristics

DNA & Protein

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The two substances from which chromosomes are made

Uterus

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Where successful implantation of the zygote occurs

Contraception

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Any method used to prevent conception
e.g. condoms





Sperm Duct

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Transports sperm
from the testes
to the penis

Placenta

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Where food / oxygen /
water / hormones /
antibodies pass from
mother to baby

Umbilical Cord

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Carries nutrients
and wastes
to/from the baby

Nucleus

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Where the DNA
is located in a
cell





Fertile
Period

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The time of the menstrual cycle when fertilisation is most likely occur

pH 7

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pH Number that represents neutral

Acidic

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If a solution has a pH less than 7

Basic

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If a solution has a pH over 7





Exothermic

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A chemical reaction that releases energy through light or heat

Endothermic

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A chemical reaction that absorbs heat from its environment

Hydrogen

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The gas produced when zinc reacts with hydrochloric acid

Neutralisation

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The name given to the reaction between an acid and a base





Water
& Salt

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The two products generally formed in a neutralization reaction

Proton

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Positively charged sub-atom particle

Electron

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Negatively charged sub-atomic particle

Neutron

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Sub-atomic particle that has no charge





Mass Number

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The sum of the number of neutrons and the number of protons present in the nucleus of the atom

Atomic Number

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The number of protons present in the nucleus of an atom of an element

Covalent Bond

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A chemical bond that involves the sharing of electron pairs between atoms

Ionic Bond

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A chemical bond that involves the giving or taking of electrons between atoms





Isotopes

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Atoms with the same atomic number but different mass number due to differing numbers of neutrons present

Molecule

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A group of two or more atoms held together by a chemical bond

Element

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The simplest form of a substance, made up of only one atom

Compound

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Formed when elements are chemically joined





Electrolysis

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The process of splitting water down into its elements using electricity

Non-biodegradable

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Cannot be broken down by living organisms

Crude Oil

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The raw material from which most plastics are made

Alloy

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Made from mixing two or more metals together





Malleable

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A property of metal that means it can be hammered into sheets

Ductile

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A property of metal that means it can be stretched into thin wires

Galvanizing

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Preventing rusting of iron or steel by coating it with a layer of zinc

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Alkali
Metals

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Name of Group 1
on the periodic
table

Alkaline
Earth

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Name of Group 2
on the periodic
table

Halogens

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Name of Group 7
on the periodic
table

Sodium Hydroxide
+
Hydrogen

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The two products
formed when sodium
reacts with water





Gold

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The element with
the chemical
symbol Au

Copper

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The element with
the chemical
symbol Cu

Iron

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The element with
the chemical
symbol Fe

Sodium

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The element with
the chemical
symbol Na





Potassium

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The element with
the chemical
symbol K

Solvent

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A liquid, e.g. water,
which other
substances dissolve
in

Solute

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The name given to
the substance that is
dissolved in a solvent
to make a solution

Saturated

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When a solution that
has as much solute as
possible dissolved in it





Chromatography

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The method of separation used to see the colour components of ink

Distillation

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The method of separation used to separate salt from seawater that keeps both the water and the salt

Crystals

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Formed when a hot, saturated solution of copper sulphate is cooled slowly

Gas

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A state of matter that has no fixed volume





Liquid

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A state of matter that has no fixed shape and cannot be compressed

Evaporation

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The changing of a liquid to a gas

Condensation

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The changing of a gas to a liquid

Solar System

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A star and all the objects that orbit around it





Galaxy

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A system of
billions of stars

Newtons

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The unit of
measurement for
weight

Kilograms

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The unit of
measurement for
mass

27.3 days

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The time it takes the
moon to fully orbit
the Earth





Phases

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The differing appearance of the Moon as it circles the Earth

Waning Gibbous

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The moon phase on days 15-20

New Moon

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The moon phase on Day 1

Jupiter

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The largest planet in our solar system





Comet

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A celestial body made of ice and dust

Cosmology

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The branch of study concerning the formation of the universe

The Asteroid

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The cluster of asteroids between Mars and Jupiter

The Kuiper Belt

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The giant cloud of rocky ice around the edges of the Solar System that is the source of our comets





8

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The number of planets in our solar system

Gravity

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The force that keeps the planets in orbit around the Sun

Orbit

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The path that the planets in our Solar System take around the Sun

The Milky Way

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The Galaxy that our Solar System is part of





Space

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The empty volume present between celestial bodies

Halley's Comet

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The comet that revolves around the Sun every 76 years

Corrosive

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Flammable

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Harmful

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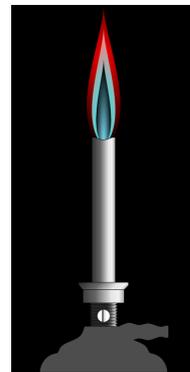
Toxic

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Bunsen
Burner

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Tripod

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Microscope

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Mass
—
Volume

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Density

g/cm^3

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Units of Density

Length x Width x
Height

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Volume





Speed x
Time

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Distance

Ammeter

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Used to measure
electrical current

Ohmmeter

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Used to measure
electrical
resistance

Voltmeter

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Used to measure
potential difference
in an electric circuit





Amp (A)

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Unit of
measurement for
electric current

Ohm (Ω)

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Unit of
measurement for
electric resistance

Volts (V)

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Unit of
measurement for
potential difference

LED

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Light Emitting
Diode





LDR

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Light-
Dependant
Resistor

$$V = I \times R$$

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Ohm's Law
formula

Electrons

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An object becomes
negatively charged
when it gains these

Insulator

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A material that doesn't
allow the flow of charge
through it





Joules (J)

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Unit of
measurement of
energy

Potential

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The energy that a
stretched rubber
band has

Kinetic

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A boulder rolling
down a hill has

Light / Heat

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Energy created when a
desk lamp converts
electric energy





The Sun

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Earth's primary source of energy

Chemical

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The type of energy stored in a battery

Examples of renewable energy

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Wind, tidal, biomass and solar energy

Examples of non-renewable energy

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Gas, oil, coal and other fossil fuels





Newton

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The unit of measurement of force

Law of the Lever

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States that clockwise moments equal anticlockwise moments

Fulcrum

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The point about which a lever pivots

Friction

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The force that opposes motion





Lubricant

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Used to prevent friction

Gravity

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The force that holds the atmosphere to the Earth

Pascal (Pa)

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Unit of measurement for pressure

Work = Force x
Distance

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Work formula





Conduction

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Method of heat transfer that involves the transfer of heat from particle to particle through the object

Convection

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Method of heat transfer that involves the movement of heat with the particles as they move

Radiation

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Method of heat transfer that does not require a medium through which to be transferred

Temperature

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The measure of how hot or cold a body is



