

## HOLY TRINITY

## Secondary Science Vocabulary

	V7	VO	, V0		V10	V4.4
	Y7	Y8	Y9		Y10	Y11
Term 1a	cells	Earth	chemical	Biology	Active transport	Adult stem cell
	tissues	orbit	weathering	Topic 1: Cell	Agar Jelly	Mitosis
	organs	satellite	weathered	-	Cell differentiation	Stem cell
	systems	phases of the	biological		Cell membrane	The cell cycle
	organism	Moon	weathering		Cell wall	Therapeutic cloning
	organelles	hemispheres	erosion		Chloroplast	
	nucleus	asteroid	freeze-thaw action		Chromosomes	
	cytoplasm	inner planets	physical weathering		Concentration gradient	
	mitochondrion	outer planets	sediment		Diffusion	
	ribosome	solar system	transport		Embryonic Stem Cell	
	cell membrane	galaxy	limestone		Eukaryotic stem cell	
	cell wall	light year	sedimentary rock		Eukaryotic cell	
	vacuole	Milky Way	magma		Magnification	
	chloroplast	star	metamorphic rocks		Meristematic cells	
	microscope	Universe	igneous rock		Mitochondria	
	eyepiece lens	gravity	lava		Nucleus	
	objective lens	mass	mantle		Organelle	
	stage	weight	rock cycle		Osmosis	
	specimen				Plasmid	
		diet			Prokaryotic cell	
	states of matter	nutrients	element		Resolution	
	solid	starch	metals		Specialised cells	
	liquid	water	non-metals		Surface area	
	gas	balanced diet	properties		Vacuole	
	dissolving	carbohydrate	chemical formula			

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filtering	fat	compounds	Biology	Amylase	Meristem tissue
insoluble	kilojoule (kJ)	molecule	Topic 2:	Aorta	
mixture	mineral	symbol equation	Organisation	Artery	
soluble	protein	chemical reaction		Bile	
solute	sugar	reactants		Blood	
solution	vitamin	products		Capillary	
solvent	absorbed	reactivity		Cell	
condensing	digestion	reactivity series		Communicable disease	
distillation	digestive juices			Coronary heart disease	
chromatogram	egestion			Enzymes	
chromatogram	enzyme			Lipase	
solubility	gullet			Lock and key hypothesis	
	ingestion			Malignant tumour	
	insoluble			Non-communicable disease	
	large intestine			Organs	
	rectum			Organ systems	
	saliva			Palisade mesophyll	
	small intestine			Phloem	
	stomach			Protease	
	amylase			Pulmonary artery	
	villi			Pulmonary vein	
				Rate of reaction	
	element			Risk factor	
	metals			Spongy mesophyll	
	non-metals			Statins	
	Periodic Table			Stent	
	atom			Tissue	
	properties			Translocation	
	chemical formula			Transpiration	
	compounds			Vein	
	molecule			Vena cava	
	symbol equation			Xylem	
environment	magnetism	ray			

Term	habitat	attract	opaque	Biology	Antibiotics	
1b	carnivore	magnetic	reflect	Topic 3:	Clinical drug testing	
10	decomposer	materials	translucent	Infection and	Communicable disease	
	herbivore	magnetism	transmit		Double bling trial	
	predator	north pole	transparent	Response	Gonorrhoea	
	prey	repel	angle of incidence		Human immunodeficiency	
	consumer	south pole	angle of melactice		virus (HIV)	
	food chain	bar magnet	image		Malaria	
	food web	magnetic field	incident ray		Measles	
	omnivore	plotting compass	normal		Monoclonal antibodies	
	producer	electromagnet	plane mirror		Non-communicable disease	
	community	permanent	ray diagram		Non-specific defence	
	population	magnet	angle of incidence		Pathogens	
	pyramid of	solenoid	angle of melactice		Placebo	
	numbers	Joichola	refraction		Preclinical drug testing	
	primary	respiration	spectrum		Rose black spot	
	consumer	blood	pitch		Side effects	
	secondary	circulatory system	amplitude		Tobacco Mosaic Virus (TMV)	
	consumer	vein	frequency		Vaccination	
	tertiary	aerobic	hertz (Hz)		White blood cell	
	consumer	respiration	loudness		Write blood cell	
	Consumer	glucose	wave			
	air resistance	product	wavelength			
	contact force	reactant	wavelength			
		word equation		Biology		Aerobic respiration
	non-contact force	aerobic		Topic 4:		Anaerobic respiration
		breathing rate		Bioenergetics		Cellular respiration
	drag force	carbon dioxide	ammeter			Inverse proportion
	newton meter	air sacs	cell			Inverse square law
	friction	alveolus	circuit			Limiting factor
						Metabolism
	gravity	breathing	component			Oxygen debt
	upthrust	gas exchange	electric current			
	water resistance balanced forces	trachea	voltage	Biology		Abstinence
	unbalanced	ventilation	atom	Topic 5:		Accommodation
		anaerobic	electron	Homeostasis		Adrenaline
	forces	respiration	resistance			Antidiuretic hormone (ADH)
	weight	fermentation	variable resistor			Contraception
	friction		parallel circuit			Coordination centres

	speed metres per second (m/s)		series circuit Ohms Law static electricity positive			Deamination Dialysis Effectors Ethane Follicle stimulating
			negative			Follicle stimulating hormone (FSH) Geotropism/gravitropism Gibberellins Glucagon Homeostasis Hyperopia In vitro fertilisation (IVF) Luteinising hormone (LH) Myopia Negative feedback cycle Phototropism Receptors
						Reflex action Selective reabsorption Stimuli Target organ Testosterone The brain The central nervous system The eye Thermoregulatory centre Thyroxine Type 1 diabetes Type 2 diabetes Vasoconstriction
Term 2a	acid corrosive hydrochloric acid alkali indicator litmus neutral pH scale	properties alloys polymers ceramics composites chemical reaction	abiotic biotic population community ecology sampling quadrat line transect	Biology Topic 6: Inheritance, Variation and Evolution	Amino acids MRSA Vector	Adult cell cloning Archaea Asexual reproduction Binomial system Charles Darwin Classification Coding DNA Complementary

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	universal	irreversible	random			Cuttings
	indicator	change	bias			Cystic fibrosis
	neutralisation	product	ecosystem			DNA
		reactants	adaptation			Embryo screening
	chemical energy	word equation	extremophile			Embryo transplants
	electrical energy	combustion	habitat			Evolution
	fossil fuels		population growth			Evolutionary tree
	heat energy	speed	carrying capacity			Extinction
	kinetic energy	distance	estimate			Family tree
	law of	time	competition			Fertilisation
	conservation of	velocity	inter-species			Fossil
	energy	distance / time	intra-species			Gametes
	light energy	graph				Gene
	nuclear energy	velocity / time	atoms			Genetic engineering
	sound energy	graph	elements			Genome
	geothermal	acceleration	mixtures			GM crops
	power		pure			Heterozygous
	hydroelectric		compound			Homozygous
	power		chemical formulae			Inbreeding
	solar power		formulation			Linnaean system
	nuclear power					Meiosis
	tidal power					Mitosis
	joule (J)					Natural selection
						Non-coding DNA
						Nucleotide
						Phenotype
						Protein synthesis
						Recessive
						Ribosomes
						Sex chromosome
						Sexual reproduction
						Speciation
						Species
						Three-domain system
						Tissue culture
						Variation
						1341011
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Term	egg cell	organelles	Biology	Abiotic factors	
2b	sperm cell	nucleus	Topic 7:	Adaptation	
	uterus	cytoplasm	Ecology	Anaerobic decay	
	ovary	mitochondrion	200.087	Apex decay	
	oviduct	ribosome		Apex predator	
	vagina	cell membrane		Biodiversity	
	sperm duct	cell wall		Biogas	
	testis	vacuole		Biotic factors	
	umbilical cord	chloroplast		Carbon cycle	
	fertilisation	microscope		Community	
	embryo	eyepiece lens		Competition	
	amniotic fluid	objective lens		Compost	
	menstrual cycle	stage		Decomposers	
	gestation period	specimen		Decomposition	
	puberty	magnification		Deforestation	
	sex cell	field of view		Distribution	
	variation	graticule		Ecosystem	
				Efficiency of biomass	
	atom	energy stores		transfer	
	chemical formula	energy transfers		Extremophiles	
	compound	magnetic energy		Food chain	
	element	kinetic energy		Food security	
	molecule	thermal energy		Global warming	
	mixture	light energy		GM crops	
	pure	gravitational		Interdependence	
		potential energy		Mean	
		chemical energy		Median	
		sound energy		Microorganisms	
		electrical energy		Mode	
		elastic potential		Pollution	
		energy		Population	
		nuclear energy		Predators	
		renewable energy		Prey	
		wind energy		Primary consumers	
		solar energy		Producers	
		geothermal energy		Pyramid of biomass	
		biomass energy		Quadrat	
		tidal energy		Secondary consumers	

Term 3a	ammeter	DNA	wave energy hydroelectric energy  speed acceleration velocity distance / time graph velocity / time graph gradient vector scalar non-uniform acceleration	Chemistry	Sustainable Sustainable fisheries Tertiary consumers Transect Trophic levels Water cycle	
Term Su	cell circuit	genetic information	evolution nitrogen	Topic 1: Atomic	Atom Atomic nucleus	
	component electric current voltage atom electron resistance variable resistor parallel circuit series circuit  photosynthesis glucose water oxygen carbon dioxide chlorophyll	inherited variation species cross-breeding selective breeding genes alleles adaptation population evolution survival of the fittest mutations	carbon dioxide nitrogen oxygen volcanoes photosynthesis temperature methane carbon cycle greenhouse effect global warming	Structure and The Periodic Table	Atomic number Chromatography Compound Crystallisation Displacement Electron Electron shell Element Filtration Fractional distillation Group (periodic table) Halogens Isotope Mass number Metals Mixture	
	chloroplast				Neutron Noble gases	

Term 3b	palisade mesophyll spongy mesophyll xylem phloem	finite renewable sustainable natural artificial synthetic population potable wate flocculation sedimentatio chlorination filter pH dissolved salt microorganis distillation	on ts	Non-metals Nuclear model Periodic table Plum pudding model Proton Relative atomic mass Simple distillation Transition metals conductor Empirical formula Gas Ion Liquid Metals Molecular formula Non-metals Particle theory Solid State symbols	Covalent bond Diamond Electrostatic forces Fullerenes Graphene Graphite Ionic bond Ionic compound Intermolecular forces Lattice Metallic bond Nanoparticles Nanoscience Polymers Repeat unit
		distillation sterilisation			

desalination reverse osmos effluent screening aeration anaerobic life cycle assessment raw materials manufacture distribution Use disposal  environment habitat carnivore decomposer herbivore predator prey consumer food chain food web omnivore producer community population pyramid of numbers primary consu secondary consumer tertiary consu carbon cycle	Quantitative Chemistry  Chemistry  Chemistry  Chemistry  Chemistry  Chemistry  Topic 4: Chemical Changes  Changes  Changes  Changes  Changes  Avogadro's law Concentration Conservation of mass Limiting reactant Mole Percentage by mass Percentage yield Relative formula mass Theoretical yield Thermal decomposition  Acid Alkali Crystallisation Crystallisation Electrolyte Negative electrode (cathode) Neutralisation Oxidation pH scale Positive electrode (anode) Redox reaction Reduction Strong acid Titration
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	water cycle	Chemistry Topic 5: Energy Changes		Activation energy Alkaline batteries Battery Chemical cells Endothermic reaction Exothermic reaction Fuel cells Overall energy change of the reaction Reaction profile Rechargeable cells
		Chemistry Topic 6: The Rate and Extent of Chemical Changes	Activation energy Catalyst Collision theory Effect of changing concentration on equilibrium Effect of changing pressure on equilibrium Effect of changing temperature on equilibrium Effect of concentration on reaction rate Effect of pressure on reaction rate Effect of surface area on reaction rate Effect of temperature on reaction rate Effect of reaction	Equilibrium Le Chatelier's Principle Reversible reaction

Chemistry	Alkanes	Addition polymerisation
Topic 7:	Alkenes	Alcohols
Organic	Catalytic cracking	Amino acids
Chemistry	Combustion	Carboxylic acids
,	Complete combustion	Condensation
	Crude oil	polymerisation
	Cracking	: A process that involves
	Fermentation	breaking down larger
	Fractional distillation	hydrocarbons to produce
	Homologous series	smaller
	Hydrocarbons	more useful molecules.
	Steam cracking	Cracking can be done by
		catalytic cracking or steam
		cracking.
		DNA
		Esters
		Nucleotides
		Polyesters
		Polymers
		Polypeptide
		Repeat unit
Chemistry	Chromatogram	Flame emission
Topic 8:	Chromatography	spectroscopy
Organic	Formulation	Flame test
Chemical	Impure substance	Instrumental methods
Analysis	Mobile phase	Litmus paper
Allalysis	Pure substance	Precipitation
	Rf value	
	Stationary phase	

Ch a i a t	Acid rain	
Chemistry	Acid rain	
Topic 9:	Carbon footprint	
Chemistry of	Environmental implication	
the	Fossil fuels	
Atmosphere	Global climate change	
	Global dimming	
	Greenhouse effect	
	Greenhouse gases	
	Particulates	
	Photosynthesis	
	Pollutants	
Chemistry	Alloy	Electroplating
Topic 10:	Bioleaching	Galvanise
Using	Composite	Sacrificial protection
_	Corrosion	The Haber process
Resources	Desalination	Thermosetting polymers:
	Electrolysis	Thermosoftening polymers
	Finite resources	The most terming perymers
	Ground Water	
	Life cycle assessment (LCA)	
	NPK fertilisers	
	Ore	
	Phytomining	
	Potable water	
	Raw materials	
	Renewable resources	
	Sterilisation	
	Sustainable development	

Physics	Closed System	Specific Heat Capacity
Topic 1:	Conservation of Energy	
Energy	Efficiency	
87	Elastic Potential Energy	
	Fossil Fuels: Coal, oil and	
	gas.	
	Gravitational Potential	
	Energy	
	Joule	
	Kinetic Energy	
	Power	
	Renewable Energy Resource	
	Spring Constant	
	System: A single, or group,	
	of objects.	
	Thermal Conductivity	
	Waste Energy	
	Watt	
	Work Done	

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	Physics	Alternating Potential
	Topic 2:	Difference
	Electricity	Amperes (Amps)
		Attraction
		Coulomb
		Diode
		Direct Potential Difference
		Earth Wire
		Electric Field Lines
		Electric Field
		Electrical Current
		Electrical Work
		Filament Lamp
		Insulation .
		Light Dependent Resistor
		(LDR)
		Live Wire
		Mains Electricity
		Neutral Wire
		Non-Contact Force
		Ohmic Conductor
		Ohms
		Parallel
		Potential Difference
		Repulsion
		Resistors in Parallel
		Resistors in Series
		Series
		Static Charge
		Step-Down Transformers
		Step-Up Transformers
		The National Grid
		Thermistor
		Volt
		VOIC

Dia	Change in Thomas I France	
Physics	Change in Thermal Energy	
Topic 3:	Chemical Changes	
Particle Model	Condensation	
of Matter	Density	
o. matter	Evaporation	
	Freezing	
	Gas Temperature	
	Internal Energy	
	Latent Heat	
	Pascals	
	Physical Changes	
	Pressure	
	Capacity	
	Specific Latent Heat of	
	Fusion	
	Specific Latent Heat of	
	Vaporisation	
	Specific Latent Heat	
	Sublimation	

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Physics	Activity	
Topic 4: Atomic	Alpha Particle	
Structure	Atomic Number	
	Background Radiation	
	Becquerel	
	Beta Particle	
	Bohr Model	
	Chain Reaction	
	Count-Rate	
	Energy Levels	
	Fission Products	
	Gamma Ray	
	Half-Life	
	Ions	
	Isotopes	
	Mass Number	
	Negative Ions	
	Neutrons	
	Nuclear Explosions	
	Nuclear Fission	
	Nuclear Fusion	
	Nucleus	
	Plum Pudding Model	
	Positive Ions	
	Protons	
	Radioactive Contamination	
	Radioactive Decay	
	Sieverts	
	Spontaneous Fission	
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Physics	Acceleration	Braking Distance
Topic 5: Forces	Centre of Mass	Changes of Momentum
	Contact Forces	Conservation of
	Distance	Momentum
	Elastic Deformation	Inertia
	Elastic Limit	Inertial Mass
	Elastic Potential Energy	Momentum
	Equilibrium	Newton's Second Law
	Floating	Newton's Third Law
	Fluid	Pressure in a Column
	Forces	Resolution of Forces
	Limit of Proportionality	Stopping Distance
	Moment	Thinking Distance
	Newton's First Law	
	Non-Contact Forces	
	Plastic Deformation	
	Resultant Force	
	Resultant Moment	
	Scalar Quantities	
	Sinking	
	Speed	
	Spring Constant	
	Upthrust	
	Vector Quantities	
	Velocity	
	Weight	
	Work Done	
	VVOIR BOILE	

Physics	Amplitude	Colour Filters
Topic 6: Waves	Angle of Incidence	Colour
	Black body	Convex Lens
	Constant Temperature	Focal Length
	Diffuse Reflection	Infrared Radiation
	Echo Sounding	Ionising Radiation
	Electromagnetic Waves	Microwaves
	Frequency	
	Hertz	
	Lens	
	Magnification	
	P-Waves	
	Perfect Black Body	
	Period	
	Radiation Dose	
	Radio Waves	
	Reflection	
	S-Waves	
	Sound Waves	
	Specular Reflection	
	Waves	
	Ultrasound Scanning	
	Ultrasound Waves	
	Ultraviolet	
	Visible Light	
	Wave Speed	
	Wavelength	
	White	

Physics Topic 7: Magnetism and Electromagnetism	Alternator Attraction Current-Carrying Wires: Dynamo Electric Motor Electromagnet Left-Hand Rule Generator Effect Induced Magnet Magnetic Compass Magnetic Field Lines Magnetic Field Magnetic Materials Microphone Motor Effect Permanent Magnet Repulsion Solenoid Step-Down Transformer Step-Up Transformer Tesla Transformer
Physics Topic 8: Space Physics	Artificial Satellites Big Bang Theory Circular Orbits Dark Energy Dark Mass Main Sequence Star Milky Way Galaxy Natural Satellites Nebula Protostar Red Giant Star Red-Shift Star Life Cycle Sun

			Supernova White Dwarf	
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