

Subject	Science		Year 10/11		Year 12		Year 13		Year 14			
Scheme title	Chemistry	Biology	Physics	Science	Physics	Biology	Chemistry	Chemistry	Physics	Biology		
<b>Purpose of scheme</b>	A unit which links to the human impact on the world	A unit which introduces the ideas about how we make use of the resources available to us, and how to do this in a sustainable way	An introduction to magnetism and electromagnetism	This unit provides real-life examples where we need to think about the use and efficient transfer of energy	Further opportunities to think about how science works and how new theories are developed and checked.	This unit builds on the basics of forces from Y7 and explores the ideas to different situations. It also introduces the concept of pressure	This unit develops the ideas from Y7 about reproduction and sex to look at our understanding of genetics	This unit builds on the Y7 ideas around cells to look at two important life processes in our bodies	This unit develops ideas about the structure of matter and different types of material	This unit introduces ideas about the structure of matter and different types of material	This unit further develops ideas about waves from the Y7 light and sound topics to look at other applications	This unit focuses on more biological processes which keep plants and animals alive
<b>Knowledge in sequence</b>	SOB being updated	SOB being updated	See non-portable knowledge document for full details Magnets Magnetic fields Electromagnets Factors affecting the strength of an electromagnet 1.4.1 Energy and temperature 1.4.2 Energy transfer: particles, how energy and temperature are different 1.4.3 Examples of equilibrium 1.4.4 Energy transfer: particles 1.4.5 Energy transfer: particles 1.4.6 Energy transfer: particles 1.4.7 Energy transfer: particles 1.4.8 Energy transfer: particles 1.4.9 Energy transfer: particles 1.4.10 Energy transfer: particles 1.4.11 Energy transfer: particles 1.4.12 Energy transfer: particles 1.4.13 Energy transfer: particles 1.4.14 Energy transfer: particles 1.4.15 Energy transfer: particles 1.4.16 Energy transfer: particles 1.4.17 Energy transfer: particles 1.4.18 Energy transfer: particles 1.4.19 Energy transfer: particles 1.4.20 Energy transfer: particles 1.4.21 Energy transfer: particles 1.4.22 Energy transfer: particles 1.4.23 Energy 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The balanced diet & CMC 1.8 - Food test practical & Assessed PAK Ch 1.9 - The effects of unhealthy diet 1.10 - Diet and exercise in digestion 1.11 - End of unit test	SOB being updated 1.1 Atoms 1.2 Chemicals 1.3 Compounds 1.4 Chemical formulae 1.5 Polymers & CMC 1.6 - Periodic table 1.7 Metals and non-metals 1.8 Group 1 elements 1.9 Group 7 elements 1.10 Displacement reactions (Group 7) & CMC 1.11 Group 4 elements 1.12 Revision 1.13 End of unit test	1.1 Atoms 1.2 Chemicals 1.3 Compounds 1.4 Chemical formulae 1.5 Polymers & CMC 1.6 - Periodic table 1.7 Metals and non-metals 1.8 Group 1 elements 1.9 Group 7 elements 1.10 Displacement reactions (Group 7) & CMC 1.11 Group 4 elements 1.12 Revision 1.13 End of unit test	Lesson Titles 1.1 Waves Intro 1.2 Sound waves, water waves and energy and CMC 1.3 Radiation and Energy 1.4 Interference 1.5 - Test 1.6 - Interference 1.7 - Test 1.8 - Assessment	Lesson Titles 1.1 Anabolic Respiration 1.2 Anabolic Respiration 1.3 Metabolism (Fermentation) & CMC 1.4 Photosynthesis 1.5 - Leaves 1.6 - Investigating Photosynthesis 1.7 - Plant Anatomy & CMC 1.8 - Assessment	Lesson Titles 1.1 Anabolic Respiration 1.2 Anabolic Respiration 1.3 Metabolism (Fermentation) & CMC 1.4 Photosynthesis 1.5 - Leaves 1.6 - Investigating Photosynthesis 1.7 - Plant Anatomy & CMC 1.8 - Assessment
<b>Skills</b>	SOB being updated	SOB being updated	Numberic links - reporting data into formulae to complete calculations, rearranging formulae, converting units Literary links - PEE claims, extended responses to explain key ideas using evidence. Science links - knowledge of particles (arrangement of solids, liquids and gases)	Maths link - how to layout common mathematical problems in science Scientific equipment - choosing appropriate equipment and drawing scientific diagrams Literary - How to structure a scientific plan - eg. aim/hypothesis, equipment, method, variables etc Literary - how to present a risk assessment for practical activities eg. hazard, risk, prevention	Maths link - how to rearrange equations and layout common mathematical problems in science Scientific equipment - choosing appropriate equipment and drawing scientific diagrams Literary - How to structure a scientific plan - eg. aim/hypothesis, equipment, method, variables etc Tables - how to present a risk assessment for practical activities eg. hazard, risk, prevention	Maths link - data - how to understand and evaluate Literary - how to structure a mark extended response Scientific equipment - choosing appropriate equipment and drawing scientific diagrams Literary - How to structure a scientific plan - eg. aim/hypothesis, equipment, method, variables etc Tables - how to present a risk assessment for practical activities eg. hazard, risk, prevention	SOB being updated	Writing patterns and trends in data Using structure to properties and uses Using word equations and balanced symbol equations Observing data - charts, graphs and tables	Maths link - how to rearrange equations and layout common mathematical problems in science Scientific equipment - choosing appropriate equipment and drawing scientific diagrams Literary - How to structure a scientific plan - eg. aim/hypothesis, equipment, method, variables etc Literary - how to structure a mark extended response Tables - how to present a risk assessment for practical activities eg. hazard, risk, prevention	Maths link - how to rearrange equations and layout common mathematical problems in science Scientific equipment - choosing appropriate equipment and drawing scientific diagrams Literary - How to structure a scientific plan - eg. aim/hypothesis, equipment, method, variables etc Literary - how to structure a mark extended response Tables - how to present a risk assessment for practical activities eg. hazard, risk, prevention		
<b>Key Words</b>	Global warming - Gradual increase in surface temperature of earth Fossil fuels - Remains of dead organisms that are burned as fuel to release carbon dioxide Carbon sink - Areas of vegetation the oceans of soil which absorb and store carbon Green house effect - when energy from the sun is transferred as thermal energy store gases in earth's atmosphere.	Natural resources - Materials from the Earth which act as raw materials for making a variety of products Naturally occurring metal or metal compounds Dye - Naturally occurring rock containing sufficient minerals for extraction Separation - Separation of a metal from a metal compound Recycling - processing a material so that it can be used again Carbon footprint - The amount of energy used by each person during their lifetime is known as their carbon footprint. Electronics - Using electricity to light a compound into elements.	Magnetic field - A region where a magnetic material will experience a force Non-contact force - A force that does not touch objects to be touching Attract - A force that tries to pull objects towards each other Repel - A force that tries to push two objects away from each other Permanent magnet - A magnet that produces its own magnetic field at the time Electromagnet - A magnet created by wrapping wire with a current around an iron core Core - The material in the middle of an electromagnet - usually made of soft iron Current - The amount of charge flowing per second	Conservation of energy - Energy can never be created or destroyed just transferred from one store to another Work - The amount of energy transferred by carrying out an action, e.g. lifting a book, work is done against gravity Input and output force - Input force is the energy used by an acton, output force is the energy outcome. Random errors - Occur due to human error and imprecision Systematic errors - Occur due to faulty equipment or an instrument Separation currents - As the particles near a heat source are heated they spread out and become less dense, this means that they will rise. More dense particles will take their place at the bottom nearest the heat source creating a constant flow of particles. Equilibrium - If there is no transfer of thermal energy and materials are at the same temperature.	Independent - What you measure in an investigation to see how it affects the dependent variable Dependent - What you measure or observe in an investigation when you change the independent variable Control one that remains unchanged or is held constant to stop affecting the dependent variable Evaluate - To discuss the quality of data collected during an investigation and suggest improvements to the method Continuous - Has values that can be any number Discrete - Has values that are words or discrete numbers Specific examples - Different ways to investigate including observation over time, test and pattern looking.	Friction - A force produced when two surfaces rub together that acts to slow down moving objects. Fluid - A liquid or gas. Drag - The force that slows down objects moving through fluids Contact force - A force that acts between objects that are touching Extension - The increase in length of an object such as a spring Hooke's law - The force applied to a spring is directly proportional to its extension. Moment - The turning effect of a force Resultant force - The overall force acting on an object. Drive - The pressure that is exerted on a solid. Therapeutic pressure - The pressure that the air exerts on you all of the time. Incompressible - These objects cannot be squashed.	Allele - Different version of a gene, which codes for the same characteristic, for each characteristic there are two alleles. Dominant - The characteristic will be displayed, represented by a capital letter Recessive - Will not be displayed as a characteristic unless there are two of the same allele, represented by a small letter Genetic modification - The process scientists use to alter the genes of an organism Chaperone - A sheet of muscle underneath your lungs Respiratory system - The organ system including your lungs and trachea. Fight drug - It is against the law to take such drugs Body chemistry - The healthy chemical balance of your body Withdrawal symptoms - Physical reactions to stopping taking an addictive drug Addiction - When somebody cannot stop using a substance or doing an activity - they are dependent.	Enzyme - A protein molecule that is a biological catalyst Lock and key - The model of how enzymes digest substrates Balanced diet - Contains all the food groups in the correct proportions Deficiency - Lacking a nutrient in your diet. Gas exchange - The movement of oxygen into and out of your body Blood and carbon dioxide out of the blood Inhaler - Breathing in Exhale - Breathing out Chaperone - A sheet of muscle underneath your lungs Respiratory system - The organ system including your lungs and trachea. Fight drug - It is against the law to take such drugs Body chemistry - The healthy chemical balance of your body Withdrawal symptoms - Physical reactions to stopping taking an addictive drug Addiction - When somebody cannot stop using a substance or doing an activity - they are dependent.	Fuel - A substance which stores energy in a chemical store. Decomposition - Breaking down Thermal energy - Heat Bond energy - The amount of energy required to break a bond. Compound - A substance made of two or more elements that have bonded chemically These atoms are usually, but not always, joined in molecules. Can only be separated into elements by chemical reactions. The compound has different physical properties to the elements of which they are made. Mixture - Two or more elements or compounds, not chemically bonded together. Can be separated by physical processes. Mass number - The sum of the protons and neutrons in the nucleus Atomic number - The number of protons in the atom. Number of protons = Number of electrons Transition ions - Where the direction of vibration is perpendicular to that of the wave. Longitudinal wave - Where the direction of vibration is in the direction the wave is travelling. Transverse - Where waves travel through a medium rather than be absorbed or reflected.	Atom - The smallest unit of matter and part of which an element can be broken down into. Have a radius of approx 0.1nm. There are no overall charge. Approx 100 different elements. Element - A substance made up of only one type of atom, which cannot be chemically broken into other substances. Represented by unique symbols Eg. Na. Approx 100 different elements. Molecule - A substance made of two or more elements that have bonded chemically These atoms are usually, but not always, joined in molecules. Can only be separated into elements by chemical reactions. The compound has different physical properties to the elements of which they are made. Mixture - Two or more elements or compounds, not chemically bonded together. Can be separated by physical processes. Mass number - The sum of the protons and neutrons in the nucleus Atomic number - The number of protons in the atom. Number of protons = Number of electrons Transition ions - Where the direction of vibration is perpendicular to that of the wave. Longitudinal wave - Where the direction of vibration is in the direction the wave is travelling. Transverse - Where waves travel through a medium rather than be absorbed or reflected.	Ultrasound - Sound waves with frequencies higher than the human auditory range. Ultrasound (US) - Waves with frequencies higher than light, which human eyes cannot detect. Microphone - Turns the pressure wave of sound hitting it into an electrical signal. Loudspeaker - Turns an electrical signal into a pressure wave of sound. Waves - Vibrations that transport energy from place to place without transferring matter Pressure Waves - An example is sound, which has repeating patterns of high-pressure and low-pressure regions. Transverse waves - Where the direction of vibration is perpendicular to that of the wave. Longitudinal wave - Where the direction of vibration is in the direction the wave is travelling. Transverse - Where waves travel through a medium rather than be absorbed or reflected.	Fertilisers - Chemicals containing minerals that plants need to build new tissues Photosynthesis - A process where plants and algae turn carbon dioxide and water into glucose and release oxygen. Chloroplast - Green pigment in plants and algae which absorbs light energy Stomata - Pores in the surface of a leaf which open and close to let gases in and out
<b>End Point</b>	Exam-style end of topic test which assess the knowledge and skills from this unit	Exam-style end of topic test which assess the knowledge and skills from this unit	Exam-style end of topic test which assess the knowledge and skills from this unit	Exam-style end of topic test which assess the knowledge and skills from this unit	Exam-style end of topic test which assess the knowledge and skills from this unit	Exam-style end of topic test which will assess the knowledge and skills from this unit	Exam-style end of topic test which will assess the knowledge and skills from this unit	Exam-style end of topic test which will assess the knowledge and skills from this unit	Exam-style end of topic test which will assess the knowledge and skills from this unit	Exam-style end of topic test which will assess the knowledge and skills from this unit	Exam-style end of topic test which will assess the knowledge and skills from this unit	Exam-style end of topic test which will assess the knowledge and skills from this unit
<b>Assessment method</b>	SOB being updated	SOB being updated	Common marking points (CMPs) - Feedback provided by teacher at the following p-Points: 1.1/1.2 Energy and temperature 1.3/1.4 Energy transfer (particles) End of unit test (50mins) to be given after insulation practical and revision	Common marking points (CMPs) and exam questions throughout the unit to be completed as follows: Lesson 4: CMC1 Lesson 6: CMC2 Lesson 8: End of unit assessment; teacher assessed	Common marking points (CMPs) and exam questions throughout the unit to be completed as follows: Lesson 4: CMC1 Lesson 6: CMC2 Lesson 8: End of unit assessment; teacher assessed	Common marking points (CMPs) and exam questions throughout the unit to be completed as follows: Lesson 4: CMC1 Lesson 6: CMC2 Lesson 11: End of unit assessment; teacher assessed	SOB being updated	Common marking points (CMPs) & assessed (if) exam questions throughout the unit to be completed as follows: Lesson 1: CMC1 Lesson 2: CMC2 Lesson 3: CMC3 Lesson 4: CMC4 Lesson 5: CMC5 Lesson 6: CMC6 Lesson 7: CMC7 Lesson 8: CMC8 Lesson 9: CMC9 Lesson 10: CMC10 Lesson 11: CMC11 Lesson 12: CMC12 Lesson 13: CMC13 Lesson 14: CMC14 Lesson 15: CMC15 Lesson 16: CMC16 Lesson 17: CMC17 Lesson 18: CMC18 Lesson 19: CMC19 Lesson 20: CMC20 Lesson 21: CMC21 Lesson 22: CMC22 Lesson 23: CMC23 Lesson 24: CMC24 Lesson 25: CMC25 Lesson 26: CMC26 Lesson 27: CMC27 Lesson 28: CMC28 Lesson 29: CMC29 Lesson 30: CMC30 Lesson 31: CMC31 Lesson 32: CMC32 Lesson 33: CMC33 Lesson 34: CMC34 Lesson 35: CMC35 Lesson 36: CMC36 Lesson 37: CMC37 Lesson 38: CMC38 Lesson 39: CMC39 Lesson 40: CMC40 Lesson 41: CMC41 Lesson 42: CMC42 Lesson 43: CMC43 Lesson 44: CMC44 Lesson 45: CMC45 Lesson 46: CMC46 Lesson 47: CMC47 Lesson 48: CMC48 Lesson 49: CMC49 Lesson 50: CMC50 Lesson 51: CMC51 Lesson 52: CMC52 Lesson 53: CMC53 Lesson 54: CMC54 Lesson 55: CMC55 Lesson 56: CMC56 Lesson 57: CMC57 Lesson 58: CMC58 Lesson 59: CMC59 Lesson 60: CMC60 Lesson 61: CMC61 Lesson 62: CMC62 Lesson 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