

Year 7										Year 8										Year 9																																																																					
3.1.1 Speed	3.1.2 Gravity	3.5.1 Particle model	3.8.1 Movement	3.8.2 Cells	3.2.2 Current	3.3.1 Energy costs	3.6.1 Metals and non-metals	3.7.1 Earth structure	3.9.1 Interdependence	3.5.2 Separating mixtures	3.6.2 Acids and alkalis	3.4.1 Sound	3.2.1 Voltage & Resistance	3.10.1 Variation	3.8.3 Breathing	3.3.2 Energy transfer	3.4.2 Light	3.7.2 Universe	3.5.3 Periodic table	3.9.2 Plant reproduction	3.10.2 Human reproduction	3.1.3 Contact forces	3.2.2 & 3.2.3 Electromagnetism	3.7.3 Climate	3.6.3 Chemical energy	3.9.3 Respiration	3.10.3 Evolution	3.3.3 Work	3.4.3 Wave effects	3.5.4 Elements	3.4.4 Wave properties	3.8.4 Digestion	3.1.4 Pressure	3.3.4 Heating and cooling	3.6.4 Types of reaction	3.7.4 Earth resources	3.9.4 Photosynthesis	3.10.4 Inheritance	4.1.1 Cell structure	4.1.2 Cell division	4.1.3 Transport in cells	4.1.2 The human nervous system	4.5.4 Plant hormones	4.7.2 Digestion of an organism	5.4.2 Reactions of acids	5.4.3 Electrolysis	5.5.1 Exothermic and endothermic	5.6.1 Rate of reaction	3.8.1 Purification	4.0.1 Using the Earth's resources	6.1.1 Energy changes in a system	6.2.1 Current, potential difference	6.3.1 Changes of state and the particle model	6.5.3 Forces and electricity	4.5.4 Forces and motion	6.6.1 Waves in air, fluids and solids	6.8.2 Electromagnetic waves																																
Speed of falling down a slope	Calculating weight on different planets	Various experiments	The arrangement of particles in the properties of different materials	Exploring the skeletal and muscular systems to explain movement	Identifying a cheek cell and key features	Investigating current flow in series circuits	The cost of running different types of light bulbs	Using experiments to determine the reactivity of metals	Linking Earth processes to the features of rocks	Use models to investigate impact of changes in a population of one organism to others in an ecosystem	Methods to separate mixtures based on their properties	Enquiry into the use of indigenous remedies	Using an oscilloscope to measure pitch and volume	Voltage and resistors in series circuits	Using graph data to explain variation and survival of a species	Investigate correlation between height and lung volume	Energy transfers in different household devices	Ray boxes and transparent materials and lenses	Using models of the solar system to explain day length	Use data about elements to relate them to their position in the periodic table	Models to evaluate features of different types of seed dispersal	Relate pregnancy advice to ideas about transfer of substances to embryos	Relating frictional forces	Factors affecting the force of an electromagnet	Investigating natural and man-made carbon dioxide emitters	Investigating metabolic and endothermic reactions	Using data to explore fermentation of yeast	Evaluate evidence of how a species went extinct	Work done by an electric motor lifting a weight	The uses of waves and their dangers related to their frequency	Compare the properties of elements to the compound they form	The absorption, transmission and reflection of waves	Digestion	Measuring pressure exerted on the ground	Preventing heat loss through convection & radiation	Mass changes in chemical and physical processes	Select appropriate metal extraction techniques based on reactivity	Using leaves to show how chlorophyll is essential to photosynthesis	Model inheritance of a specific trait and how these relate to variation in offspring	Required practical 1: use a light microscope to observe, draw and label a selection of plant and animal cells	Required practical 2: investigate the effect of antibiotics or antiseptics on bacterial growth using agar plates and measuring zones of inhibition	Required practical 3: investigate the effect of light or gravity on the growth of newly germinated seeds	Required practical 4: investigate the effect of a range of concentrations of sugar solutions on the mass of plant tissue	Required practical 5: measure the population size of a common species in a habitat. Use sampling to investigate the effect of one factor on the distribution	Required practical 6: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 7: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 8: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 9: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 10: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 11: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 12: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 13: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 14: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 15: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 16: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 17: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 18: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 19: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 20: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 21: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 22: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 23: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 24: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 25: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 26: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 27: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 28: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 29: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 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solutions on the rate of germination	Required practical 47: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 48: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 49: investigate the effect of a range of concentrations of sugar solutions on the rate of germination	Required practical 50: investigate the effect of a range of concentrations of sugar solutions on the rate of germination

Learning Objectives	LO1 Formulate a hypothesis	LO2 Formulate a hypothesis	LO3 Formulate a hypothesis	LO4 Plan to test hypothesis	LO5 Evaluate to accept hypothesis	LO6 Evaluate to reject hypothesis	LO7 Evaluate to accept hypothesis	LO8 Evaluate to reject hypothesis	LO9 Evaluate to accept hypothesis	LO10 Evaluate to reject hypothesis	LO11 Evaluate to accept hypothesis	LO12 Evaluate to reject hypothesis	LO13 Evaluate to accept hypothesis	LO14 Evaluate to reject hypothesis	LO15 Evaluate to accept hypothesis	LO16 Evaluate to reject hypothesis	LO17 Evaluate to accept hypothesis	LO18 Evaluate to reject hypothesis	LO19 Evaluate to accept hypothesis	LO20 Evaluate to reject hypothesis	LO21 Evaluate to accept hypothesis	LO22 Evaluate to reject hypothesis	LO23 Evaluate to accept hypothesis	LO24 Evaluate to reject hypothesis	LO25 Evaluate to accept hypothesis	LO26 Evaluate to reject hypothesis	LO27 Evaluate to accept hypothesis	LO28 Evaluate to reject hypothesis	LO29 Evaluate to accept hypothesis	LO30 Evaluate to reject hypothesis	LO31 Evaluate to accept hypothesis	LO32 Evaluate to reject hypothesis	LO33 Evaluate to accept hypothesis	LO34 Evaluate to reject hypothesis	LO35 Evaluate to accept hypothesis	LO36 Evaluate to reject hypothesis	LO37 Evaluate to accept hypothesis	LO38 Evaluate to reject hypothesis	LO39 Evaluate to accept hypothesis	LO40 Evaluate to reject hypothesis	LO41 Evaluate to accept hypothesis	LO42 Evaluate to reject hypothesis	LO43 Evaluate to accept hypothesis	LO44 Evaluate to reject hypothesis	LO45 Evaluate to accept hypothesis	LO46 Evaluate to reject hypothesis	LO47 Evaluate to accept hypothesis	LO48 Evaluate to reject hypothesis	LO49 Evaluate to accept hypothesis	LO50 Evaluate to reject hypothesis
Practical Skills	PS1 Use appropriate equipment	PS2 Use appropriate equipment	PS3 Use appropriate equipment	PS4 Use appropriate equipment	PS5 Use appropriate equipment	PS6 Use appropriate equipment	PS7 Use appropriate equipment	PS8 Use appropriate equipment	PS9 Use appropriate equipment	PS10 Use appropriate equipment	PS11 Use appropriate equipment	PS12 Use appropriate equipment	PS13 Use appropriate equipment	PS14 Use appropriate equipment	PS15 Use appropriate equipment	PS16 Use appropriate equipment	PS17 Use appropriate equipment	PS18 Use appropriate equipment	PS19 Use appropriate equipment	PS20 Use appropriate equipment	PS21 Use appropriate equipment	PS22 Use appropriate equipment	PS23 Use appropriate equipment	PS24 Use appropriate equipment	PS25 Use appropriate equipment	PS26 Use appropriate equipment	PS27 Use appropriate equipment	PS28 Use appropriate equipment	PS29 Use appropriate equipment	PS30 Use appropriate equipment	PS31 Use appropriate equipment	PS32 Use appropriate equipment	PS33 Use appropriate equipment	PS34 Use appropriate equipment	PS35 Use appropriate equipment	PS36 Use appropriate equipment	PS37 Use appropriate equipment	PS38 Use appropriate equipment	PS39 Use appropriate equipment	PS40 Use appropriate equipment	PS41 Use appropriate equipment	PS42 Use appropriate equipment	PS43 Use appropriate equipment	PS44 Use appropriate equipment	PS45 Use appropriate equipment	PS46 Use appropriate equipment	PS47 Use appropriate equipment	PS48 Use appropriate equipment	PS49 Use appropriate equipment	PS50 Use appropriate equipment
Assessment Objectives	AO1 Recall facts and dates	AO2 Recall facts and dates	AO3 Recall facts and dates	AO4 Recall facts and dates	AO5 Recall facts and dates	AO6 Recall facts and dates	AO7 Recall facts and dates	AO8 Recall facts and dates	AO9 Recall facts and dates	AO10 Recall facts and dates	AO11 Recall facts and dates	AO12 Recall facts and dates	AO13 Recall facts and dates	AO14 Recall facts and dates	AO15 Recall facts and dates	AO16 Recall facts and dates	AO17 Recall facts and dates	AO18 Recall facts and dates	AO19 Recall facts and dates	AO20 Recall facts and dates	AO21 Recall facts and dates	AO22 Recall facts and dates	AO23 Recall facts and dates	AO24 Recall facts and dates	AO25 Recall facts and dates	AO26 Recall facts and dates	AO27 Recall facts and dates	AO28 Recall facts and dates	AO29 Recall facts and dates	AO30 Recall facts and dates	AO31 Recall facts and dates	AO32 Recall facts and dates	AO33 Recall facts and dates	AO34 Recall facts and dates	AO35 Recall facts and dates	AO36 Recall facts and dates	AO37 Recall facts and dates	AO38 Recall facts and dates	AO39 Recall facts and dates	AO40 Recall facts and dates	AO41 Recall facts and dates	AO42 Recall facts and dates	AO43 Recall facts and dates	AO44 Recall facts and dates	AO45 Recall facts and dates	AO46 Recall facts and dates	AO47 Recall facts and dates	AO48 Recall facts and dates	AO49 Recall facts and dates	AO50 Recall facts and dates