

	SUBJECT NAME		
	Term 1	Term 2	Term 3
Year 7	<u>1: Forces – 1.1 Speed</u> 1.1 Introduction to Forces 1.2 Balanced and Unbalanced 1.3 Speed 1.4 Distance-Time Graphs <u>1: Forces – 1.2 Gravity</u> 1.2.1 Gravity <u>5: Matter – 5.1 Particle Model</u> 5.1.1 The Particle Model 5.1.2 States of Matter 5.1.3 Melting and Freezing 5.1.4 Boiling 5.1.5 More Changes of State 5.1.6 Diffusion 5.1.7 Gas Pressure 5.1.8 Inside Particles <u>5: Matter – 5.2 Separating Mixtures</u> 5.2.1 Pure Substances and Mixtures 5.2.2 Solutions 5.2.3 Solubility 5.2.4 Filtration 5.2.5 Evaporation and Distillation 5.2.6 Chromatography <u>8: Organisms – 8.2 Cells</u>	<u>4: Waves – 4.1 Sound</u> 4.1.1 Sound Waves and Speed 4.1.2 Loudness and Amplitude 4.1.3 Frequency and Pitch 4.1.4 The Ear and Hearing ENGAGE: What does the fox say <u>4: Waves – 4.2 Light</u> 4.2.1 Light 4.2.2 Reflection 4.2.3 Refraction 4.2.4 The Eye and Vision 4.2.5 Colour <u>6: Reactions – 6.1 Acids and Alkalis</u> 6.1.1 Chemical Reactions 6.1.2 Acids and Alkalis CAREERS - DENTIST 6.1.3 Indicators and pH 6.1.4 Acid Strength 6.1.5 Neutralisation 6.1.6 Making Salts <u>6: Reactions – 6.2 Metals and Non-metals</u> 6.2.1 More About Elements 6.2.2 Chemical Reactions of Metals and Non-metals 6.2.3 Metals and Acids	<u>2: Electromagnets – 2.1 Potential Difference and Resistance</u> 2.1.1 Potential Difference 2.1.2 Resistance 2.1.3 Series and Parallel Circuits CAREERS - ELECTRICIAN <u>2: Electromagnets – 2.2 Current</u> 2.2.1 Current 2.2.2 Charging Up <u>3: Energy – 3.1 Energy Costs</u> 3.1.1 Food and Fuels 3.1.2 Energy Resources 3.1.3 Energy and Power <u>3: Energy – 3.2 Energy Transfer</u> 3.2.1 Energy Adds Up 3.2.2 Energy Dissipation <u>7: Earth – 7.2 Universe</u> 7.2.1 The Night Sky 7.2.2 The Solar System 7.2.3 The Earth 7.2.4 The Moon and Changing Ideas ENGAGE: LIFE ON ENCELADUS

	<p>8.2.1 Observing Cells 8.2.2 Plant and Animal Cells 8.2.3 Specialised Cells 8.2.4 Movement of Substances 8.2.5 Uni-cellular Organisms</p> <p><u>8: Organisms – 8.1 Movement</u> 8.1.1 Levels of Organisation 8.1.2 The Skeleton ENGAGE: Vitamin D 8.1.3 Movement: Joints 8.1.4 Movement: Muscle CAREERS - PHYSIOTHERAPIST</p>	<p>6.2.4 Metals and Oxygen 6.2.5 Metals and Water 6.2.6 Metal Displacement Reactions</p> <p><u>9: Ecosystems – 9.1 Interdependence</u> 9.1.1 Food Chains and Webs 9.1.2 Disruption to Food Chains and Webs 9.1.3 Ecosystems 9.1.4 Competition</p> <p><u>9: Ecosystems – 9.2 Plant Reproduction</u> 9.2.1 Flowers and Pollination 9.2.2 Fertilisation and Germination 9.2.3 Seed Dispersal</p>	<p><u>10: Genes – 10.1 Variation</u> 10.1.1 Variation 10.1.2 Continuous and Discontinuous 10.1.3 Adapting to Change</p> <p><u>10: Genes – 10.2 Human Reproduction</u> 10.2.1 Adolescence 10.2.2 Reproductive Systems 10.2.3 Fertilisation and Implantation 10.2.4 Development of a Foetus 10.2.5 The Menstrual Cycle</p>
<p>Year 8</p>	<p><u>1: Forces Part 2</u> 1.3.1 Friction and Drag 1.3.2 Squashing and stretching 1.3.3 Turning Forces CAREERS – ARCHITECT, THEME PARK</p> <p>1.4 Pressure 1.4.1 Pressure in gases 1.4.2 Pressure in liquids 1.4.3 Pressure in solids</p>	<p><u>4: Waves pt2</u> 4.3.1 sound waves, water waves and energy 4.3.2 Radiation and energy CAREERS - ASTRONOMER</p> <p>4.4.1 Modelling waves</p> <p><u>6:Reactions Pt2</u> 6.3.1 Atoms in a chemical reaction 6.3.2 Combustion ENGAGE: Death to diesel</p>	<p><u>2: Electromagnets Part 2</u> 2.3.1 Magnets and Magnetic fields</p> <p>2.4.1 Electromagnets 2.4.2 Using Electromagnets</p> <p><u>3: Energy Pt2</u> 3.3.1 Work energy and machines</p> <p>3.4.1 Energy and temperature 3.4.2 Energy transfer particles</p>

	<p><u>4: Waves pt2</u> 4.3.1 sound waves, water waves and energy 4.3.2 Radiation and energy</p> <p>4.4.1 Modelling waves</p> <p><u>5: Matter Pt2</u> 5.3.1 Elements 5.3.2 Atoms 5.3.3 Compounds 5.3.4 Chemical formulae 5.3.5 Polymers 5.4.1 The Periodic table 5.4.2. Elements of Group 1 5.4.3 Elements of Group 7 5.4.4 Elements of Group 0</p> <p><u>8: Organisms Pt2</u> 8.3.1 Gas exchange 8.3.2 Breathing 8.3.3 Drugs 8.3.4 Alcohol 8.3.5 Smoking</p> <p>8.4.1 Nutrients ENGAGE: EAT INSECTS 8.4.2 Food tests 8.4.3 Unhealthy diet 8.4.4 Digestive system 8.4.5 Bacteria and enzymes in digestion</p>	<p>6.3.3 Thermal decomposition 6.3.4 Conservation of Mass</p> <p>6.4.1 Exothermic and Endothermic 6.4.2 Energy level diagrams 6.4.3 Bond Energies</p> <p><u>9: Ecosystems Pt2</u> 9.3.1 Aerobic respiration 9.3.2 Anaerobic respiration 9.3.3 Biotechnology</p> <p>9.4.1 Photosynthesis 9.4.2 Leaves 9.4.3 Investigating photosynthesis 9.4.4 Plant minerals</p>	<p>3.4.3 Energy transfer: radiation and insulation</p> <p><u>1: Forces Part 2</u> 1.3.1 Friction and Drag 1.3.2 Squashing and stretching 1.3.3 Turning Forces</p> <p>1.4 Pressure 1.4.1 Pressure in gases 1.4.2 Pressure in liquids 1.4.3 Pressure in solids</p> <p><u>7:Earth Pt2</u> 7.3.1 Global Warming 7.3.2 The Carbon Cycle 7.3.3 Climate change</p> <p>7.4.1 Extracting metals 7.4.2 Recycling</p> <p><u>10: Variation Pt2</u> 10.3.1 Natural selection 10.3.2 Charles Darwin 10.3.3 Extinction 10.3.4 Preserving Biodiversity</p> <p>10.4.1 Inheritance 10.4.2 DNA CAREERS - BIOCHEMIST 10.4.3 Genetics 10.4.4 Genetic modification</p>
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Year 9	<p>Biology</p> <p>Chapter B1 Cell Structure</p> <p>1.1 The world of the microscope</p> <p>1.2 Animal and plant cells</p> <p>1.3 Eukaryotic and prokaryotic cells</p> <p>1.4 Specialisation in animal cells</p> <p>1.5 Specialisation in plant cells</p> <p>1.6 Diffusion</p> <p>1.7 Osmosis</p> <p>1.8 Osmosis in plants</p> <p>1.9 Active transport</p> <p>1.10 Exchanging materials</p> <p>Physics</p> <p>Chapter P1 Conservation and dissipation of energy</p> <p>1.1 Changes in energy stores</p> <p>1.2 Conservation of energy</p> <p>1.3 Energy and work</p> <p>1.4 Gravitational and potential energy stores</p> <p>1.5 Kinetic energy and elastic energy stores</p> <p>1.6 Energy dissipation</p> <p>1.7 Energy and efficiency</p> <p>1.8 Electrical appliances</p> <p>1.9 Energy and power</p> <p>1.10</p>	<p>Biology</p> <p>Chapter B2 Cell Division</p> <p>2.1 Cell division</p> <p>2.2 Growth and differentiation</p> <p>2.3 Stem cells</p> <p>2.4 Stem cell dilemmas</p> <p>Physics</p> <p>Chapter P2 Energy transfer by heating</p> <p>2.1 Energy transfer by conduction</p> <p>2.2 Specific heat capacity</p> <p>2.3 heating and insulating buildings</p>	<p>Biology</p> <p>Chapter B3 Organisation and digestion</p> <p>3.1 Tissues and organs</p> <p>3.2 The human digestive system</p> <p>3.3 The chemistry of food</p> <p>3.4 Catalysts and enzymes</p> <p>3.5 Factors affecting enzyme activity</p> <p>3.6 How the digestive system works</p> <p>3.7 Making digestion efficient</p> <p>Physics</p> <p>Chapter 3 Energy resources</p> <p>3.1 Energy demands</p> <p>3.2 Energy from wind and water</p> <p>3.3 Power from the sun and the earth</p> <p>3.4 Energy and the environment</p> <p>3.5 Big energy issues</p> <p>Chemistry</p>

	<p>Chemistry Chapter C1 Atomic Structure</p> <ul style="list-style-type: none"> 1.1 Atoms 1.2 Chemical equations 1.3 Separating mixtures 1.4 Fractional distillation and paper chromatography 1.5 History of the atom 1.6 Structure of the atom 1.7 Ions, atoms and isotopes 1.8 Electronic structures 	<p>Chemistry Chapter C2 The Periodic Table</p> <ul style="list-style-type: none"> 2.1 Development of the periodic table 2.2 Electronic structures and the periodic table 2.3 Group 1 the alkali metals 2.4 Group 7 the halogens 2.5 Explaining trends 	<p>Chapter C3 Structure and bonding</p> <ul style="list-style-type: none"> 3.1 States of Matter 3.2 Atoms into ions 3.3 Ionic bonding 3.4 Giant ionic structures 3.5 Covalent bonding 3.6 Structure of simple molecules 3.7 Giant covalent structures 3.8 Fullerenes and graphene 3.9 Bonding in metals 3.10 Giant metallic structures
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