

Great Park Academy Science Curriculum Overview: Year 7

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	<u>1. Working scientifically investigation</u> (a) Safety in science (b) Planning experiments (c) Collecting data (d) Handling data (e) Conclusions (f) Evaluating data <u>2. Forces (Physics)</u> (a) Introduction to forces (b) Squashing and stretching (c) Drag forces and friction (d) Forces at a distance (e) Balanced and unbalanced <u>3. Energy 1 (Physics)</u> (a) Introduction to energy (b) Conservation of energy (c) Food and fuels	<u>4. Particles (Chemistry & Physics)</u> (a) The particle model (b) States of matter (c) Density (d) Melting and freezing (e) Boiling (f) More changes of state (g) Diffusion <u>5. Elements, atoms and compounds (Chemistry)</u> (a) Elements (b) Atoms (c) Compounds (d) Chemical formulae	<u>6. Chemical reactions (Chemistry)</u> (a) Chemical reactions (b) Word equations (c) Oxidation reactions (d) Decomposition reactions (e) Using ratios (f) Conservation of mass (g) Exothermic and endothermic reactions <u>7. Cells (Biology)</u> (a) Observing cells (b) Plant and animal cells (c) Specialised cells (d) Movement of substances into and out of cells (e) Unicellular organisms	<u>8. Structure & function of body systems (Biology)</u> (a) Levels of organisation (b) Gas exchange (c) Breathing (d) Skeleton (e) Movement: joints (f) Movement: muscles <u>9. Sound (Physics)</u> (a) Waves (b) Sound (c) Loudness and pitch (d) Detecting sound (e) Echoes and ultrasound	<u>10. Light (Physics)</u> (a) Light (b) Reflection (c) Refraction (d) The eye and the camera (e) Colour <u>11. Acids and alkalis (Chemistry)</u> (a) Acids and alkalis (b) Indicators and pH (c) Neutralisation (d) Making salts	<u>12. Reproduction (Biology)</u> (a) Adolescence (b) Reproductive systems (c) Fertilisation and implantation (d) Development of a foetus (e) The menstrual cycle (f) Flowers and pollination (g) Fertilisation and germination (h) Seed dispersal <u>13. Space (Physics)</u> (a) The night sky (b) The Solar System (c) The Earth (d) The Moon

	(d) Energy resources					
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