TOTTINGTON HIGH SCHOOL

	Science Curriculum Intent Our vision for science at Tottington High School is for all students to develop a passion for science, to promote inquisitive, independent and resilient young scientists who appreciate and understand the world around them. Science developments influence our lives and are vital to the future prosperity of our world. Our science curriculum enables students to recognise the power of rational explanation and develop a sense of excitement and curiosity about scientific phenomena. All students are encouraged to understand how science can be used to make predictions; formulate experimental methods; conduct experiments; and analyse and explain results.		
	Term 1	**Term 2**	**Term 3**
Year 7	**Forces** Speed and Gravity **Matter** Particle Model and Separating Mixtures **Organisms** Cells and Movement	**Waves** Sound and Light **Reactions** Acids and Alkalis, and Metals and Non-metals **Ecosystems** Interdependence and Plant Reproduction	**Electromagnets** Current, Potential Difference and Resistance **Energy** Energy Costs and Energy Transfers **Earth** Universe **Genes** Variation and Human Reproduction
Year 8	**Forces** Contact Forces and Pressure **Matter** Elements and The Periodic Table **Organisms** Breathing and digestion	**Waves** Wave Effects and Wave Properties **Reactions** Types of Reactions and Chemical Energy **Ecosystems** Respiration of Photosynthesis	**Electromagnets** Magnetism and Electromagnets **Energy** Work, and Heating and Cooling **Earth** Climate and Earth Resources **Genes** Evolution and Inheritance

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Year 9	B1 Cell structure and transport C1 Atomic structure P1 Conservation and dissipation of energy	B2 Cell division C2 The periodic table P2 Energy transfer by heating B3 Organisation and the digestive system	C3 Structure and bonding P3 Energy resources B4 Organising Animals and Plants P4 Electric circuits
Year 10	B5 Communicable diseases B6 Preventing and treating disease B7 Non-communicable diseases C4 Chemical calculations C5 Chemical changes C6 Electrolysis P5 Electricity in the home P6 Molecules and Matter	B8 Photosynthesis B9 Respiration B10 The human nervous system B11 Hormonal coordination C7 Energy changes C8 Rates and equilibrium P7 Radioactivity P8 Forces in balance	B12 Reproduction B13 Variation and evolution C9 Crude oil and fuels C10 Chemical analysis P9 Motion P10 Force and motion
Year 11	B14 Genetics and evolution B15 Adaptations, interdependence, and competition B16 Organising and ecosystem B17 Biodiversity and ecosystems C11 The Earth's atmosphere C12 The Earth's resources P11 Wave properties P12 Electromagnetic waves P13 Electromagnetism	Examination preparation	GCSE Examinations