	ng Plan		sed to the fundamental science that unpins the ambitious knowledge taught in tific model and will build their practical ability in what will be their first experien Key Concepts and Themes	
Year 7: Science	HT1	The Big Bang	 What is Science and why do we study it? The importance of scientific models and the development of them. 	Investigation, Theories, Experimentation, Observe, Analysis, Evidence, Results, Data, Conclude, Hypothesis, Model
		Space	 The Earth's movements in space causing: Day and night, Years, Seasons, Eclipses The Solar System Space exploration 	Cosmology, Solar system, Sun, Stars, Axis, Seasons, Apollo, Exploration
	HT2	Particles	The Particle ModelSolids, Liquids and GasesChanges of stateDissolving	State, Solution, Solvent, Solute, Pure, Condense, Sublimation, Deposition
	НТ3	Cells	 Alive, dead or never living? Cells and cell structures Cell shape and size Diffusion and the cell membrane 	Microscope, Organism, Organelle, DNA, Diffuse, Respiration, Unicellular, Multicellular
	нт4	Forces	 Sir Isaac Newton Describing forces Balanced and unbalanced forces Friction 	Momentum, Friction, Magnetic, Weight, Balanced, Unbalanced, Electrostatic, Upthrust, Resultant
		Solubility	 What is solubility Comparing solubility of different substances How to change the rate of solubility 	Saturated, Insoluble, Microscopic, Dissolve, Mass, Thermal, Kinetic energy
	HT5	Sound and Light	 Types of waves Waves carry energy Production and transmission of sound How sound is detected Characteristics of light 	Particles, Vibration, Vacuum, Loud, Quiet, High, Low, Absorb, Reflect, Scatter
		Health and Disease	 Good and ill health Leading a healthy lifestyle Mental health Disease 	Health, Disease, Symptoms, Antibiotic Resistance, Environment, Genome, Infectious, Medicine
	HT6	Variation	 Differences within species Charles Darwin Changes in species over time Collecting evidence through fossils 	Species, Variation, Inherited, Genetic, Evidence, Habitat, Extinct, Fossils, Continuous, Discontinuous
		Skill Development	 To decide whether or not given data supports a specific theory To be able to carry out a practical activity, following instructions regarding so To be able to use scientific equipment correctly To understand the importance of using models in science 	afety