Week/ Lesson	Term	Торіс	Knowledge	Skills
1 2	Autumn T1	Practical skills	 Variables Dependent and independent Control variables Reproducibility Analysis and evaluation 	Practical skills Graphical skills - how to plot a suitable graph Evaluating practical methods
3 4 5		Organisms 2	 Breathing Gas exchange Healthy diets and lifestyles The digestive system 	Extended writing skills - the consequences of an unhealthy diet
6		Reteach Week	 Organisms 2 and practical skills 	Assessment
7 8 9	Autumn T2	Matter 2	 The periodic table Elements, compounds and mixtures Polymers and composite materials 	Extended writing skills - the development of the periodic table
<u>10</u> 11		Forces 2	 Balanced forces and equilibrium Stretch and compression / investigating Hooke's law Pressure of solids and liquids Floating and sinking 	Graphical skills- describing and interpreting trends
12		Reteach Week	• Organisms 2/Matter 2/Forces 2	Assessment

		ASSESSMENT		
13 14 15	-	Genes 2	 Natural selection Biodiversity Genetic material Genetic and environmental variation Genetic diagrams 	Extended writing skills- The importance in maintaining biodiversity
16 17 18	Spring T1	Reactions 2	 Endothermic and exothermic reactions Catalysts Combustion and fuels Thermal decomposition 	Numeracy skill- subtractions Practical skills- which fuel is the best and analysing data
19		Reteach Week	 Organisms 2/Matter 2/Forces 2/Genes 2/Reactions 2 	Assessment
20 21 22	Spring T2	Energy 2	 Work done Simple machines Energy and temperature Heat transfer- conduction/convection and radiation Cooling and heating curves 	Numeracy skills- Using work done equation comparing and contrasting the different methods of heat transfer
23 24		Ecosystems 2	 Aerobic and anaerobic respiration Fermentation Photosynthesis – adaptation of leaves and investigating photosynthesis Transport of water and minerals 	Practical skills - writing a step by step method
25		Reteach Week	 Organisms 2/Matter 2/Forces 2/Genes 2/Reactions 2/Energy 2/Ecosystems 2 	Assessment
20				

27 28	Summer T1	Earth 2	 Fossil fuels and the atmosphere The carbon cycle Global warming Sustainability Recycling Extraction of metals 	Extended writing skills - climate change Evaluate the advantages of recycling
29 30 31	-	Waves 2	 Sound Light Transverse and longitudinal waves Reflection and absorption of waves 	
32		Reteach Week	 Organisms 2/Matter 2/Forces 2/Genes 2/Reactions 2/Energy 2/Ecosystems 2/Earth 2/Waves 2 	Assessment
33 34 35	Summer T2	Electromagnets	 Magnetic fields Investigating electromagnets Use of electromagnets Investigating the strength of electromagnets 	
36 37 38 39		Physics investigation	 Investigating the strength of electromagnets Report writing Analysis and evaluation 	Practical skills - the strength of an electromagnet
40		Reteach week	Organisms 2/Matter 2/Forces 2/Genes 2/Reactions 2/Energy 2/Ecosystems 2/Earth 2/Waves 2/Electromagnets 2	Assessment