Year 7

Subject Science

Term	Week	Focus	Summary	Learning Outcomes
Term 1	1	Introduction and Lab Safety	Expectations and Books Lab Safety	Summarise the key expectations in Science Apply your knowledge to identify dangers in the lab Construct a set of lab safety rules Write a risk assessment
	2	Introduction and Lab Safety	Lab Equipment Hazard Symbols	Use your knowledge to identify lab equipment Draw scientific diagrams for lab equipment Apply your knowledge to explain what each piece of lab equipment is used for Use your knowledge to identify hazard symbols Intepret hazard symbols Write a risk assessment for items with a hazard symbol
	3	Scientific Skills	Bunsen Burner License Investigation Salt and Boiling Point	Use your knowledge to label a Bunsen Burner Set up a Bunsen Burner safely Outline how to use a Bunsen Burner Use your knowledge to identify variables Chooce the correct titles for a scientific table Collect results from a scientific investigation
	4	Scientific Skills	Salt and Boiling Point Graph Invetigating Heart Rate Investigation Heart Rate Graphs	Justify the type of graph for a set of results Draw a graph for your results Interpret the graph you have drawn Use your knowledge to identify variables Choose the correct titles for a scientific table Collect results from a scientific investigation
	5	Scientific Skills Physics: Forces	Scientific Skill Retrieval Forces Introduction Balanced and Unbalanced Forces	Evaluate your knowledge of the Scientific Skills topic Use your knowledge to define a force Interpret scenarios to identify forces Distinguish between contact and non-contact forces Interpret diagrams to identify balanced or unabalnced forces Calculate resultant force Draw and interpret force dirgams
	6	Physics: Forces	Friction Investigation Friction Investigation Analysis	Use your knowledge to identify variables Choose the correct titles for a scientific table Collect results from a scientific investigation Justify the type of graph for a set of results Draw a graph for your results Interpret the graph you have drawn
	7	Physics: Forces	Hooke's Law Forces Retrieval	Use your knowledge to identify scinetific equipment and define key terms Draw a graph Interpret results Evaluate your knowledge of the Scientific Skills topic
	8	Physics: Waves and Light	Waves Introduction SoundReflection	Interpret images to define a wave Apply your knowledge to label a wave Distinguish between transverse and longitudinal waves Interpret information to describe how sound travels Use your knowledge to define amplitude and frequency Relate frequency and amplitude to wavelength and pitch Use your knowledge to describe how light travels and define reflection Demonstrate the law of reflection Distinguish between specular and diffuse reflection
	9	Physics: Waves and Light	Refraction Colour	Use your knowledge to define refraction Relate refraction, density and speed Research how a concave lens works Use your knowledge to list the primary colours Investigate how different filters affect light Apply your knowledge to explain why objects have certain colours
	10	Physics: Waves and Light Physics: Space	Waves and Light Retrieval Our Solar System	Evaluate your knowledge of the Waves and Light topic Use your knowledge to define key terms Create a mnemonic to remember the planets name and list them in order Model the solar system to scale
	11	Physics: Space	Our Earth Our Moon	Use your knowledge to explain what causes day and night Justify what causes seasons Evaluate a peer's presentation Justify why the moon looks different Create a model of the phases of the moon and name them Outline the causes of a solar and lunar eclipse
	12	Physics: Space	Mass and WeightSpace Retrieval	Distinguish the difference between mass and weight Rearrange formula. Calculate your weight on different planets Evaluate your knowledge of the Space topic
	13	Physics: Completion		
	14	Physics Retrieval	End of Term Retieval of all Physics and Feedback	