

Year 7		
Materials	Autumn 1 W1	<ul style="list-style-type: none"> • Properties of materials - using scientific language and observations. • I understand opaque, transparent and translucent
	Autumn 1 W2	<ul style="list-style-type: none"> • I can carry out a scientific investigation using my knowledge of materials to filter water. • I understand density
	Autumn 1 W3	<ul style="list-style-type: none"> • I understand the term buoyancy • I can use my knowledge of buoyancy to solve a scientific problem
	Autumn 1 W4	<ul style="list-style-type: none"> • I understand what thermal conductors and insulators are.
	Autumn 1 W5	<ul style="list-style-type: none"> • I can describe the difference between reversible and irreversible changes
	Autumn 1 W6	<ul style="list-style-type: none"> • I can use my knowledge of materials to design and make a den fit for purpose.
	Autumn 1 W7	<ul style="list-style-type: none"> • Kahoot recap and introduction to new topic
Aut 2 - digestion	Autumn 2 W1	<ul style="list-style-type: none"> • Identify the organs of the digestive system:
	Autumn 2 W2	<ul style="list-style-type: none"> • Understand the digestive process:
	Autumn 2 W3	<ul style="list-style-type: none"> • Describe the role of enzymes in digestion • Explain the functions of different digestive system components:
	Autumn 2 W4	<ul style="list-style-type: none"> • Explore the importance of nutrition:

		<ul style="list-style-type: none"> Investigate the impact of lifestyle choices on digestion:
	Autumn 2 W5	<ul style="list-style-type: none"> Examine common digestive system disorders:
	Autumn 2 W6	<ul style="list-style-type: none"> Apply knowledge to dietary choices:
	Autumn 2 W7	<ul style="list-style-type: none"> Scientist research and presentations
	Autumn 2 W8	<ul style="list-style-type: none"> Recap

Year 8		
Forces	Autumn 1 W1	<ul style="list-style-type: none"> I can calculate speed using a formula
	Autumn 1 W2	<ul style="list-style-type: none"> I can calculate speed, distance and time using a formula
	Autumn 1 W3	<ul style="list-style-type: none"> I understand what friction is and how it affects the movement of objects. I understand magnetism
	Autumn 1 W4	<ul style="list-style-type: none"> I understand that magnetic field lines flow from the north to the south pole I understand that a compass uses the earth's magnetic field
	Autumn 1 W5	<ul style="list-style-type: none"> I understand electromagnets I can create an electromagnet
	Autumn 1 W6	Revision/ recap
	Autumn 1 W7	Revision/ recap

Skeletons and muscles	Autumn 1 W1	<ul style="list-style-type: none"> I can Identify the major bones and muscles in the human body.
	Autumn 1 W2	<ul style="list-style-type: none"> Explain the structure and function of bones and muscles: Demonstrate an understanding of the skeletal system
	Autumn 1 W3	<ul style="list-style-type: none"> Describe the types of joints and their functions: Analyse the role of muscles in movement:
	Autumn 1 W4	<ul style="list-style-type: none"> Examine the impact of exercise on muscles and bones:
	Autumn 1 W5	<ul style="list-style-type: none"> Investigate common skeletal and muscular disorders:
	Autumn 1 W6	<ul style="list-style-type: none"> Apply knowledge to real-life scenarios:
	Autumn 1 W7	<ul style="list-style-type: none"> Revision

Year 9		
Working scientifically	Autumn 1 W1	<ul style="list-style-type: none"> I can Identify hazards and their symbols I can understand how to work safely in the lab
	Autumn 1 W2	<ul style="list-style-type: none"> I can raise scientific questions. I understand the difference between effective and ineffective scientific questions.
	Autumn 1 W3	<ul style="list-style-type: none"> I understand the

		<p>components of a scientific investigation</p> <ul style="list-style-type: none"> • I understand what risk assessment is and am beginning to develop my own.
	Autumn 1 W4	<ul style="list-style-type: none"> • I can identify the different parts of a bunsen burner • I understand different types of data including - categorical, discrete and continuous
	Autumn 1 W5	<ul style="list-style-type: none"> • I can record data using charts and graphs • I can analyse my data
	Autumn 1 W6	<ul style="list-style-type: none"> • I can evaluate my data and create conclusion • I can suggest further investigation questions
	Autumn 1 W7	<ul style="list-style-type: none"> • Recap
Aut 2 - Genetics and evolution	Autumn 2 W1	<ul style="list-style-type: none"> • I understand the basic of genetics including genes and inheritance
	Autumn 2 W2	<ul style="list-style-type: none"> • I can describe patterns of inheritance • I can explain variation and the factors that affect it.
	Autumn 2 W3	<ul style="list-style-type: none"> • I can understand natural selection and begin to analyse the principles of natural selection
	Autumn 2 W4	<ul style="list-style-type: none"> • I can find and discuss evidence for evolution
	Autumn 2 W5	<ul style="list-style-type: none"> • <i>I can Compare and contrast microevolution and macroevolution:</i>
	Autumn 2 W6	<ul style="list-style-type: none"> • Apply knowledge to real-world scenarios: Students will apply their

		understanding of genetics and evolution to analyse real-world situations, - the impact of human activities on the evolution of species
	Autumn 2 W7	<ul style="list-style-type: none"> Apply knowledge to real-world scenarios: Students will apply their understanding of genetics and evolution to analyse real-world situations, - antibiotic resistance in bacteria, understanding the genetic basis of hereditary diseases.
	Aut 2 W8	Recap

Entry level Science - double award		
Biology component 1 The Human Body	1st year Autumn 1 W1	Cell structure - human/ animal cells
	1st year Autumn 1 W2	Specialised Cells/ adaptations
	1st year Autumn 1 W3	Organ system Levels of Hierarchy Circulation system
	1st year Autumn 1 W4	Circulation system Digestive system
	1st year Autumn 1 W5	Energy & respiration
	1st year Autumn 1 W6	Diet and exercise

	1st year Autumn 1 W7	Infectious disease - pathogens
	1st year Autumn 2 W1	Fighting infection - How our body naturally does it and use of vaccines
	1st year Autumn 2 W2	Using drugs to fight disease
	1st year Autumn 2 W3	Nervous system Reflex actions
	1st year Autumn 2 W4	Hormone system Menstrual cycle
	1st year Autumn 2 W5	Fertility Controlling fertility
	1st year Autumn 2 W6	Recap

GCSE Biology		
Cells and organisations	Autumn 1 W1	Cell structure - animal and plant cells Eukaryotic and prokaryotic cells
	Autumn 1 W2	Specialised Cells/ adaptations
	Autumn 1 W3	Diffusion, Osmosis, Active transport
	Autumn 1 W4	Cell division, Growth and differentiation
	Autumn 1 W5	Stem Cells/ dilemmas
	Autumn 1 W6	Tissues and organs Digestive system
	Autumn 1 W7	Chemistry of food

	Autumn 2 W1	Catalysts/ Enzymes
	Autumn 2 W2	The blood/ blood vessels
	Autumn 2 W3	The heart/ helping the heart
	Autumn 2 W4	Breathing and gas exchange
	Autumn 2 W5	Tissues and organs in plants Transport systems in plants
	Autumn 2 W6	Evaporation and transpiration
	Autumn 2 W7	Revision & recap