BISAK

Year 7 Science

V1 2026

	Term 1		Term 2		Term 3	
Overview	**Welcome to Science** Pupils will be introduced to the scientific skills required throughout Science at BISAK	**The particle model** **Cells, tissues and organs, Forces** Pupils will study a Biology, Chemistry and Physics topic	**Ecosystems, Current and Electricity,** Pupils will study a Biology and a Physics topic	**Atoms, Elements and Molecules, Muscles and bones** Pupils will study a Chemistry and a Biology topic	**Energy & Sustainability** Pupils will study a Physics topic	**Acids and Alkalis** Pupils will study a Chemistry topic and review the year's work
Key Skills	Safety in the lab Practical skills Tables and graphs Writing conclusions	Interpreting solids, liquids and gases and change of state The cell as the basic unit of life Drawing force diagrams, calculating pressure.	Interpret food webs and food chains Concept of current as flowing charges	Developing the particle model Describing how oxygen is delivered to muscles	Concept of conservation of energy. Concept of renewable and non-renewable energy sources	Concept of indicators and the pH scale Naming salts from neutralisation
Assessment Focus	Practical report	Mid topic assessment End of topic test *Forces as a graded project*	Mid topic assessment End of topic test *Ecosystems as a graded project*	Mid topic assessment End of topic test	Mid topic assessment End of topic test Sustainability project	Mid topic assessment End of year test
Example assessment question	Plot the results as a bar chart. Write a conclusion for the investigation	How do the air particles inside a car tyre cause pressure? What is the function of this part of the cell?	The cell is changed for a 6V cell. How will this affect the current in the circuit?	What is a compound? Why do muscles operate in pairs?	Explain why coal is non-renewable.	State the name of the salt in the word equation
Resources	Working safely in a lab Variables Graphs and charts	Cells Solids, liquids and gases Forces	Ecosystems Electricity	Elements, compounds and mixtures Muscles	Energy stores	The pH scale

Science is a vast area of study; pupils will focus on topics for 3 - 4 weeks then take a 30-minute topic test.
Some topics will be assessed through project work and graded by a readily available rubric.
Please remember all pupils will need a pen, pencil, ruler and calculator for every lesson, this is especially important during assessments.
A mid topic assessment is not graded; it is a short assessment to inform both the pupils and the teacher of the understanding of a topic.