MEADOW PARK SCHOOL

Year 7 Curriculum Overview: Science

Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Interdependence and Variation (Biology) – ecosystems, food chains, adaptation and variation. **States of Matter** (Chemistry) – solids, liquids, gases, particle model and changes of state. **Energy** (Physics) – energy stores, transfers and conservation of energy.	**Systems to Cells** (Biology) – organs, organ systems and the structure of plant and animal cells. **Elements, Compounds and the Periodic Table** (Chemistry) – atoms, elements, compounds and the structure of the periodic table.	**Separating Mixtures** (Chemistry) – filtration, evaporation, distillation and chromatography. **Forces** (Physics) – contact and non-contact forces, gravity, friction and measuring forces.	**Reproduction** (Biology) – human reproductive systems, fertilisation, development and plant reproduction.	**Digestion** (Biology) – the digestive system, enzymes and the role of organs in digestion.	**Electricity** (Physics) – simple circuits, current and electrical components. **Heating and Cooling** (Physics) – thermal energy transfer, insulation and temperature changes.

Assessment	Key Concepts/ Skills	Reading
Students complete **Knowledge Checks at the end of each topic** to assess their understanding. Teachers provide feedback to help students reflect on their learning and make improvements. Assessment focuses on applying knowledge, using scientific vocabulary accurately, and explaining scientific ideas clearly.	Throughout the year students develop important scientific skills, including: • Working scientifically and planning investigations • Making observations and recording results • Analysing data and drawing conclusions • Interpreting graphs and scientific diagrams • Using scientific vocabulary accurately • Applying knowledge to explain real-world phenomena	Students develop their scientific literacy through reading scientific texts, case studies, and explanations of real-world scientific discoveries. Students practise interpreting diagrams, graphs, and written information to build confidence in reading scientific material. Students are taught the BUG strategy to help them approach exam questions effectively: • B – Box the command word • U – Underline key information in the question • G – Glance back at the question to check that the answer fully addresses what has been asked This supports students in developing strong exam technique and clear written responses.

Enrichment	Careers	Useful resources and revision
Students have opportunities to take part in enrichment activities such as: • Science Club • British Science Week activities • STEM challenges and competitions • Practical investigations and demonstrations	Throughout the curriculum, students are introduced to careers that use science, including: • Medicine and healthcare • Engineering and technology • Environmental science • Research and laboratory science These links help students understand how science connects to real-world careers and future opportunities.	Students can support their learning using: • **Sparx Science** (weekly homework) • Knowledge organisers and revision materials • Teacher resources and recommended websites • Educational science videos and reading materials

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