

Year 7 Curriculum Overview

| Half Term 1 | |
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| Date | Curriculum Overview |
| | Topic: Particles |
| WC 02/09 | Introduction to science (expectations, standards, health and safety, introduction of key skills and assessing prior knowledge). |
| WC 09/09 | How do solids, liquid and gases differ? |
| WC 16/09 | What happens when matter changes state? What are cooling curves? |
| WC 23/09 | How do you measure and calculate density? Formative assessment of skills linked to practical work. |
| WC 30/09 | What is diffusion? Where does it happen within nature and the body? |
| WC 07/10 | How do particles create pressure? How can we change the pressure in a system? |
| WC 14/10 | What are atoms? How do atoms combine? |
| Half Term 2 | |
| Date | Curriculum Overview |
| | Topic: Cells and reproduction |
| WC 04/11 | Consolidation, assessment, feedback (DIRT) and pupil voice. |
| WC 11/11 | How do we classify objects as living? |
| WC 18/11 | What do we find inside cells? What comparisons can we find between different types of cells? |
| WC 25/11 | How can we use microscopes? What do onion cells look like through a microscope? Formative assessment of skills linked to practical work. |
| WC 02/12 | What cells are important in our body? How are organisms organised? |
| WC 09/12 | What are the reproductive systems? What changes should I expect during puberty? |
| WC 16/12 | How are babies made? What are the stages of pregnancy and development of the foetus? |
| Half Term 3 | |
| Date | Curriculum Overview |
| | Topic: Energy |
| WC 06/01 | What are the different stores of energy? How does energy move from one store to another? |
| WC 13/01 | How efficient is your house? How can we reduce wasted energy? |
| WC 20/01 | How is heat transferred? How can we use the principle of heat transfer to increase efficiency? |
| WC 27/01 | How can we prevent heat loss? Formative assessment of skills linked to practical work. |
| WC 03/02 | What caused the formation of fossil fuels? How do fossil fuels provide us with electricity? |
| WC 10/02 | How can we generate electricity from other sources? How can we provide electricity to remote locations? |
| WC 17/02 | Consolidation, assessment, feedback (DIRT) and pupil voice. |
| Half Term 4 | |
| Date | Curriculum Overview |
| | Topic: Separating chemicals and acids/alkalis |
| WC 24/02 | What is solubility? How can we make things dissolve quicker? |
| WC 02/03 | How can we separate mixtures? Formative assessment of skills linked to practical work. |
| WC 09/03 | What are acids and alkalis? How can we demonstrate pH? |
| WC 16/03 | How is acid rain formed? What is our atmosphere? |
| WC 23/03 | What happens when acids react with other substances? |
| WC 30/03 | How can we make a salt? Formative assessment of skills linked to practical work. |
| Half Term 5 | |
| Date | Curriculum Overview |
| | Topic: Fast and furious |
| WC 20/04 | What is the periodic table? Has it always been the current way? |
| WC 27/04 | What is an atom? How are electrons arranged? |
| WC 05/05 | Why are some groups special? How do elements react? |
| WC 11/05 | How can we make reactions quicker? |
| WC 18/05 | Revision for end of year summative assessment |
| Half Term 6 | |
| Date | Curriculum Overview |
| | Topic: Forces |
| WC 01/06 | Consolidation, assessment, feedback (DIRT) and pupil voice. |
| WC 08/06 | What are forces? How do we measure force? |
| WC 15/06 | What happens when we apply a force to a spring? Formative assessment of skills linked to practical work. |
| WC 22/06 | Friction – friend or foe? How can you reduce the effort needed to move a load? |
| WC 29/06 | How fast can you go? Can a design improve performance? |
| WC 06/07 | How do weight and mass differ? What is space? |
| WC 13/07 | What is space? |

- ✓ Each lesson will start with a series of questions linked to both the previous lesson and topics studied previously.
- ✓ Formative assessment of skills linked to practical work will enable students to demonstrate their acquisition of new skills.
- ✓ Students are encouraged to consolidate learning at least once a week and seek tutor help if unsure on any topics.