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| Science Year 9 | Curriculum intent: In Year 9 students experience a blend of the KS3 curriculum and introductory GCSE topics. The year 9 curriculum will continue to consolidate and build on the key themes studied in both year 7 and 8. Students will study a broad and balanced curriculum. Retrieval and consolidation exercises will support students in the acquisition of key knowledge. Students will also be given the opportunity to apply this knowledge in new situations. | | | | | |
| Rotation | 1 | | | 2 | | |
| Interleaving | Key knowledge from previously studied topics | | | Key knowledge from previously studied topics | | |
| Knowledge | Cells to systems | The Earth and its Atmosphere | Thermal Physics (Energy 1) | Organisation 1 | Atomic Structure and the periodic table | Topic 1 Energy resources Topic 2 Sound |
| Understanding | <p>Apply knowledge in a range of different contexts. Opportunities to include:</p> <ul style="list-style-type: none"> Studying the importance of diffusion in animal cells focussing on the digestive and respiratory systems. Examining evidence that links the greenhouse effect and climate change. Explaining how energy can be transferred in a variety of ways and how insulation works. | | | <p>Apply knowledge in a range of different contexts. Opportunities to include:</p> <ul style="list-style-type: none"> Investigating a factor that effects the rate of photosynthesis. Describing how materials are recycled in an ecosystem How our understanding of the atom developed over time. Explaining why no one can hear you scream in space and measuring the speed of sound. | | |
| Skills | Scientific thinking | Experimental skills | Analysis and evaluation | Scientific vocabulary | Scientific thinking | Experimental skills Analysis and evaluation Scientific vocabulary |
| Assessment | End of topic tests for all individual topics across Biology, Chemistry and Physics | | | End of topic tests for all individual topics across Biology, Chemistry and Physics | | |