



Edition 6
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SCIENCE

Curriculum Newsletter

YEAR 7

Contact



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Curriculum Intent

The Science curriculum is inclusive and ambitious for all students, designed to engage students and strengthen the memory of what is being learnt. The curriculum is organised into 12 Big Ideas that are developed through a series of key concepts organised into teaching topics which are revisited throughout the KS3, 4 and 5 programmes of study. We aim to spark a lifelong passion for science by cultivating a sense of wonder and awe about the natural world.

Our curriculum intends to foster a spirit of curiosity and inquiry, encouraging students to ask questions and seek answer and connect science to their everyday lives, demonstrating its relevance and importance.

observation, data collection, analysis, and critical thinking. Students will be provided with opportunities for engaging in hands-on practical work, encouraging exploration and experimentation.

The Science curriculum also provides opportunities for students to explore the ethical and societal implications and sustainability, and helps nurture responsible attitudes towards the environment and living organisms.

Year 7 Curriculum

Unleash your inner Scientist. Calling all curious minds and budding Einstein's! KS3 Science is your gateway to a world of wonder, discovery, and endless possibilities. But where do you begin? How can you transform

In Year 7 you will explore 6 topics linked to the big ideas in Science, click the topics below to explore BBC Bitesize information on these KS3 Science units...

Get ready to shrink down to the size of a speck of dust and embark on an epic adventure into the world of cells, the building blocks of all living things! In this unit, students become a cellular sleuth, unlocking the mysteries hidden within cells.

Dive into the dazzling world of matter. Witness mind-blowing transformations! You'll become a master of materials, unravelling the secrets of solids, liquids and gases, and witnessing the mind-blowing transformation that happen when they change state.

Ever wondered why rockets soar, skateboards slide and eagles glide in breeze. You'll be a gravity-defying detective, a friction-busting engineer and a speed loving scientist, uncovering the invisible forces that rule our world.

The miracle of life. Journey through the awe-inspiring world of reproduction, from the fascinating dance of plant pollination to the complex processes of animal fertilization and development discovering how new life springs into existence! We'll peek inside cells, unravelling the mysteries of variation, the spice that makes life so diverse.

Ready to shrink down to the size of an atom and explore the building blocks of everything around you? Buckle up, because this KS3 unit on elements and compounds will transform you into a master chemist, unlocking the secrets of the tiniest titans in the universe!

Get ready to ignite your curiosity and fuel your imagination with this electrifying KS3 unit on energy, the driving force behind everything in the Universe! From the sparkling glow of a light bulb to the thrilling rush of a rollercoaster ride, energy is everywhere, and in this unit, you'll become a master of its mysteries.

The WPT Science Study Lounge

help, support and opportunities to further develop their understanding of Science. Students can visit by clicking to the left and explore the activities, videos, quizzes and exam questions designed to help them succeed in Science.

Students d lore the



Careers

We run a series of 'Careers in the Curriculum' weeks in our school. For Science, this week takes place in January.

Students take part in a number of activities to encourage them to think about how what they learn in the classroom can be applied in a number of future careers. In Year 7, we go beyond the stereotypical lab

ecosystems, marine biologists studying coral reefs, engineers designing prosthetic limbs, or geneticists researching cures for diseases.

Check out our 'Careers in the Curriculum' section on our website by clicking the microscope...

STEM Careers

Science is the key to unlocking a variety of rich and varied career pathways.

STEM (Science, Technology, Engineering and Maths) education focuses on practical learning, to develop the necessary skills in students so they're prepared for the rapidly-developing real world.

career in science.

