Broadening Horizons

Our intent is that all students have a full understanding of how to develop themselves as well rounded citizens, maintain healthy relationships and understand how to keep themselves safe both online and in their day-to-day life. We want all students to know what options are open to them in the future and understand the routes they have in order to progress on their life journey.

Our curriculum includes:

- Links with local industries and national organisations, innovative external speakers, events and resources
- Opportunities for students to visit University Science **Departments**
- Science based activity days
- First hand fieldwork

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.

Immerse Yourself



Access with your Google account



The WPT Science Study Lounge website offers students a place to find help, support and opportunities to further develop their understanding of Science.

Students can visit using the link below and explore the activities, videos, quizzes and exam questions designed to help them succeed in Science.



Access with your Google account



Read about Science in the news, lastest scientific discoveries and find out more about the possible careers in Science by visiting the WPT digital science magazine 'Science in Focus'.

Praise and Reward

Our rewards system can be broadly split into four categories: classroom level, subject level, school level and privilege rewards. We'll focus on classroom and subject rewards here - for more information about our rewards schemes, please see our website.

CLASSROOM LEVEL REWARDS

Awarded for: working hard, taking risks and rising to a challenge, making mistakes and learning from them, helping others, and taking pride in the school community.

Rewarded by: praise postcards, positive phone calls to parents/ carers, positive text messages home, and lesson based prizes.

SUBJECT LEVEL REWARDS

Reward scheme: star of the week. curriculum awards (Subject/ School Way, participation, working with pride, embracing the whole curriculum), high flyer, extra mile, most improved.

Rewarded by: names displayed on reward boards, certificates, social media posts.

Contact



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The Royal Society

Independent Scientific Academy of the UK, dedicated to promoting excellence in Science for the benefit of humanity.







January

YEAR 10





Curriculum Intent

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.

The Science curriculum is planned to build increasingly sophisticated knowledge of the products and practices of Science.



The Science curriculum is inclusive and ambitious for all students, designed to

Year 10 Curriculum

In Year 10 students will learn about the following key ideas delivered in smaller units of studu.

Cell Biology

We will explore how structural differences between tupes of cells enables them to perform specific functions.

Organ Sustems

We will learn about the human digestive system and the respiratory system in more detail.

Bioenergetics

We will explore how plants harness the Sun's energy in photosynthesis and how both animals and plants use this oxygen.

Infection and Response

We will learn how we can avoid diseases bu reducing contact with them, and how the body uses barriers against pathogens.

Atomic Structure and the Periodic

Table

We will learn about the periodic table and how it aids chemists with the known chemical elements.

Bonding, Structure and the Properties of Matter

We will learn about how chemists use theories of structure and bonding to explain the physical and chemical properties

Chemical Changes

We will explore chemical reactions that are all around us and used in industrial processes and investigate the rate and extent of chemical changes.

Energy

We will learn about energy changes in systems including calculations. We will also look at the use of fossil fuels and alobal warmina.

Electricity

We will learn about series and parallel circuits and the domestic uses of electricity including the role of the national grid.

Particle Model of Matter

This is widely used to predict the behaviour of solids, liquids and gases, we will learn about this model and its applications in everyday life.

Atomic Structure

We will learn about the structure of the atom, the development of the atom and nuclear decay.

THE SCIENCE WAY MAKE LINKS BETWEEN BIG IDEAS IN SCIENCE We can explain We can make observations describe what we see everyday things We work safely & in a scientific way We can work practically look out for hazards with people with different skills and adapt to do things better & knowledge WE EVALUATE EXPERIMENTAL RESULTS IN LIGHT OF THE ORIGINAL PROBLEM We use scientific vocabulary accurately & talk like a a problem and use ou SUBJECT WAYS

Have your say!

At WPT we're always looking for feedback. If you have any thoughts/opinions on this Curriculum Newsletter, its content or the curriculum in general, please scan the QR code to fill out a short feedback form.



Assessment Points

Students are assessed at the end of each unit of studu. Students will also complete mini mocks and mock exams covering paper 1 content.

The Science Way

The Science Way is followed in all of our lessons. It is designed to help students become young subject specialists and has two main purposes: to teach students the vital skills needed to achieve their full potential, and to demonstrate how Science relates to the wider world.