

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, latest 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



David Frith
WPT Science
Subject Director
dfrith@wickersley.net



Michael Richards
Gainsborough Subject
Coordinator
mrichards@gainsboroughacademy.com

The Royal Society

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



SCIENCE
YEAR 7 Curriculum Newsletter



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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.

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



Year 7 Curriculum

In Year 7 students will study six topics in science linked to the 12 Big Ideas.

Unit 1 - Cells and Systems

All life on Earth is made from cells. Without cells, there can be no life. In this unit students take a look at cells under the microscope and start to find out about how they work together to form complex organisms.

Unit 2 - Matter and State Changes

This unit introduces the particle model and use it to describe the changes to substances when they are heated up and cooled down.

Unit 3 - Forces and Motion

Force and motion are important parts of everyday life. Students will learn how these physical factors impact our everyday lives and work.

Unit 4 - Reproduction and Variation

Students will learn about the

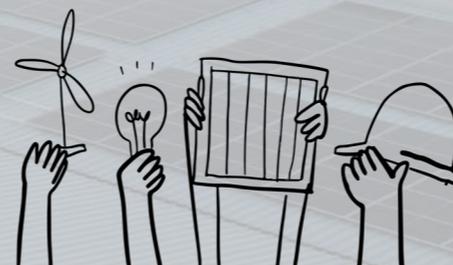
cells and body parts involved in reproduction, how a baby grows in the uterus, and what happens at birth.

Unit 5 - Elements, Compounds and Mixtures

Atoms make up everything. In this unit students look at elements, compounds and mixtures and have the opportunity to carry out some practical Science experiments to separate mixtures.

Unit 6 - Energy

In this unit of study students will investigate the different energy stores, how energy can be transferred by heating and learn how they can reduce our energy use in the home.



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 topic, roughly once per half term. Assessments are online and include short and long answer written questions and multiple choice questions. Students will also sit two written summative assessments during the year, assessing accumulative knowledge.

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.

THE SCIENCE WAY

WE MAKE LINKS BETWEEN BIG IDEAS IN SCIENCE

We can make observations & describe what we see

We work safely & look out for hazards

We can learn from successes & failures and adapt to do things better

WE EVALUATE EXPERIMENTAL RESULTS IN LIGHT OF THE ORIGINAL PROBLEM

We use scientific vocabulary accurately & talk like a scientist

We can explain everyday things in a scientific way

We can work practically with people with different skills & knowledge

We can use numbers and data to support our work and obtain meaningful information

We can identify key issues in a problem and use our scientific knowledge to tackle them

WE ALWAYS ASK QUESTIONS AND TRY TO FIGURE OUT WHY

BUCKERSLEY PARTNERSHIP TRUST

SUBJECT WAYS