

## 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 8 Curriculum Newsletter



Edition 4  
January  
2023





# 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 8 Curriculum

In Year 8 students will study six topics in Science linked to the 12 Big Ideas.

## Unit 7 - Waves

In this unit students will explore how energy is transferred as waves. They will explore how we observe and hear things through the movement of light and sound.

## Unit 8 - The Periodic Table

Students will explore the periodic table of elements, looking at the properties in certain groups by carrying out practical investigations and describing the trend in these groups.

## Unit 9 - Organ Systems

Students will be learning about the organs in our bodies. They will explore the key processes and parts of these systems, including the respiratory systems and digestive system.

## Unit 10 - Matter

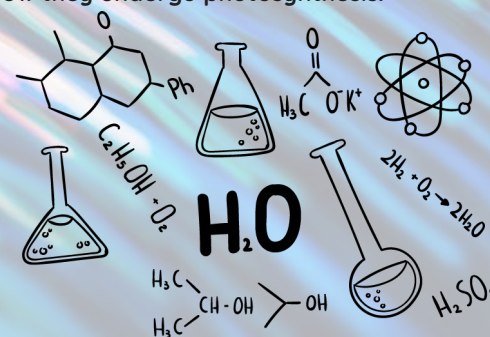
Particles behave differently in solids, liquids and gases. In this topic students will explore how different states of matter have different properties and what are the factors that affect these properties.

## Unit 11 - Acids and Alkalis

In this topic students will look at common substances which are acid or alkaline and how we can test for them. They will also explore the reactions of acids with different substances.

## Unit 12 - Plants and Photosynthesis

Plants are really important for the planet and for all living things. In this topic students will look at plant structure, their life processes and how they undergo photosynthesis.



# 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.