



Science at Sheringham High School

Mrs Sarah Hookway

Head of Science



Introducing the Science Team

Head of Science:

Mrs Hookway

Head of Biology:

Miss Lucas

Head of Chemistry:

Mrs Waldron

Science Teachers:

Mrs Rigby

Mr Smith

Mrs Turner

Miss Warren

Mr Wilkerson

Science Technicians:

Mrs Sharp

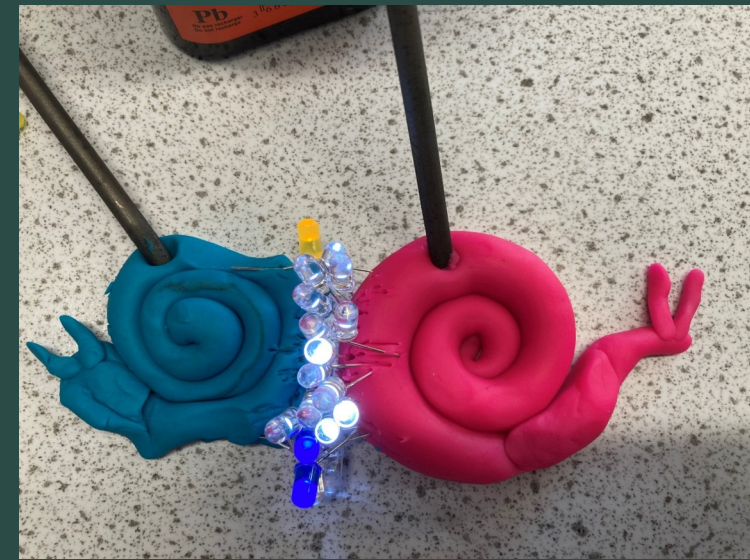
Miss Tipper

Science at Sheringham High School

The school's vision is 'Stronger Together'.

We strive to ensure all our students aspire to succeed in Science. We aim to provide an engaging and challenging curriculum for all students.

Enthusiasm and enjoyment are key to the achieving in Science. We aim to inspire students to become scientifically literate so they can decode the world around them and to consider STEM careers through the use of both practical and theory work.



Changes in Science

The current specification for Science at GCSE was updated in 2016.

The way students were graded also changed from A* – G to 9 – 1 when this specification was first introduced.

Levels were also removed at KS3 and replaced with 'Progress Bands' to match the GCSE grades to support a five year programme of study through High School.

A-level grades remain A* – E.



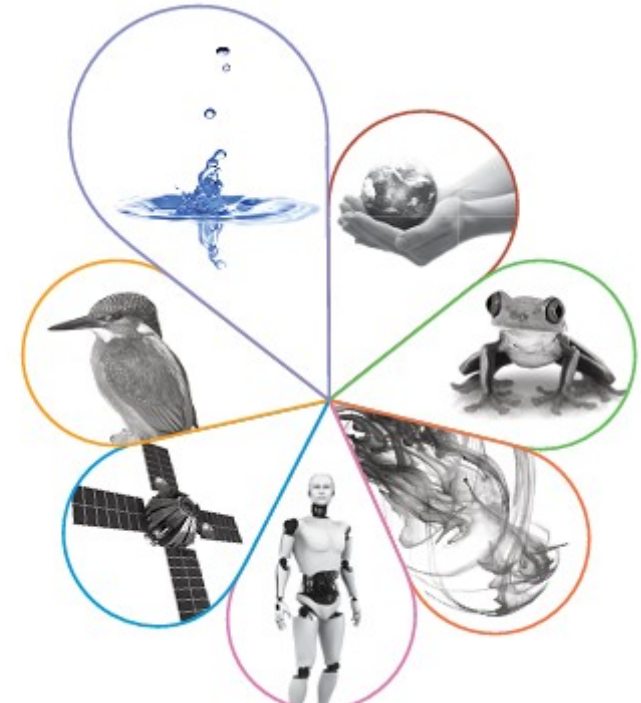
GCSE COMBINED SCIENCE: TRILOGY

(8464)

Specification

For teaching from September 2016 onwards
For exams in 2018 onwards

Version 1.1 04 October 2019



What will my child be learning?

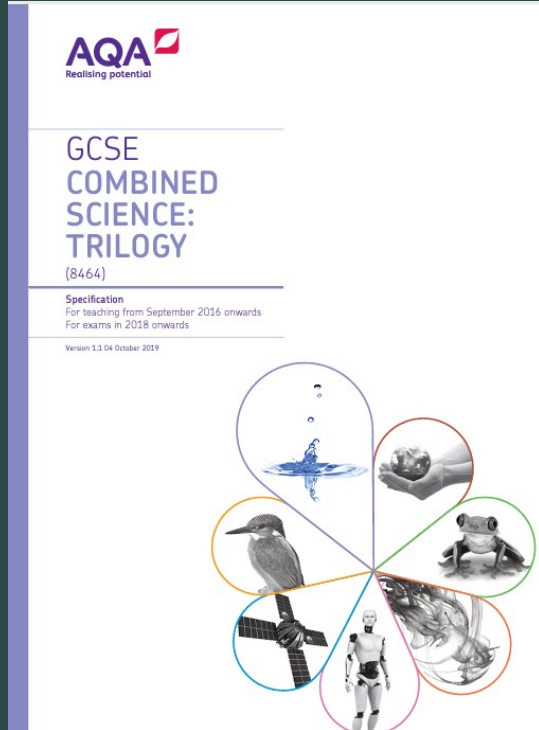
Why?

Term	Year 7 topics	Year 8 topics
Autumn 1	Cells and tissues	Cells and tissues
Autumn 2	Plant and animal systems	Plant and animal systems
Spring 1	Plant and animal systems	Plant and animal systems
Spring 2	Plant and animal systems	Plant and animal systems
Summer 1	Acids and alkalis	Climate and the Earth's
Summer 2	Acids and alkalis	Climate and the Earth's

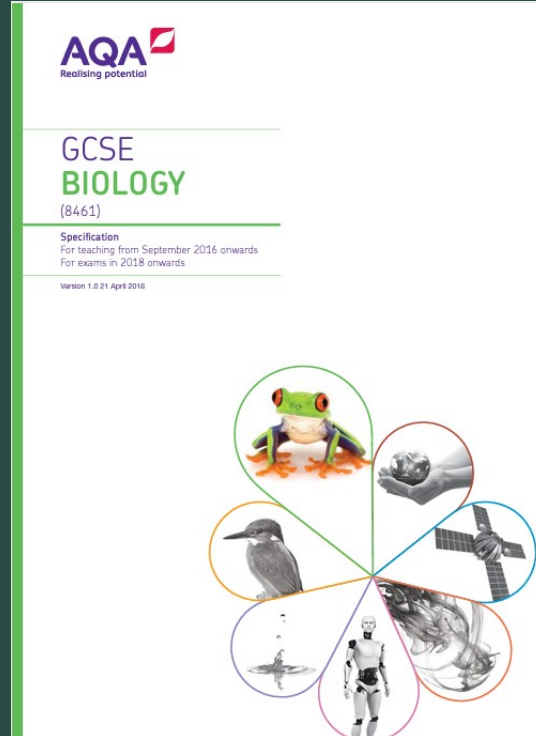
- To ensure interleaving and repetition of knowledge and skills.
- To support long-term retention of knowledge.
- Organised so ideas develop across the year within subjects as well as over the years, starting with foundation ideas.
- Organised for suitability of learning and time of year, e.g. it would be difficult to completed field work in Ecology in the winter!
- Similar topics in the same term each year so gaps between learning are equally spaced out making learning easier and not disadvantaging any particular subject.

The Journey to GCSE

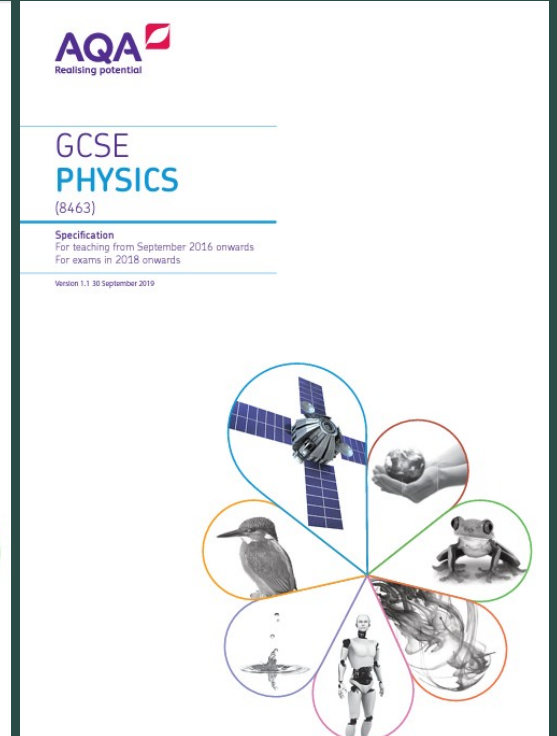
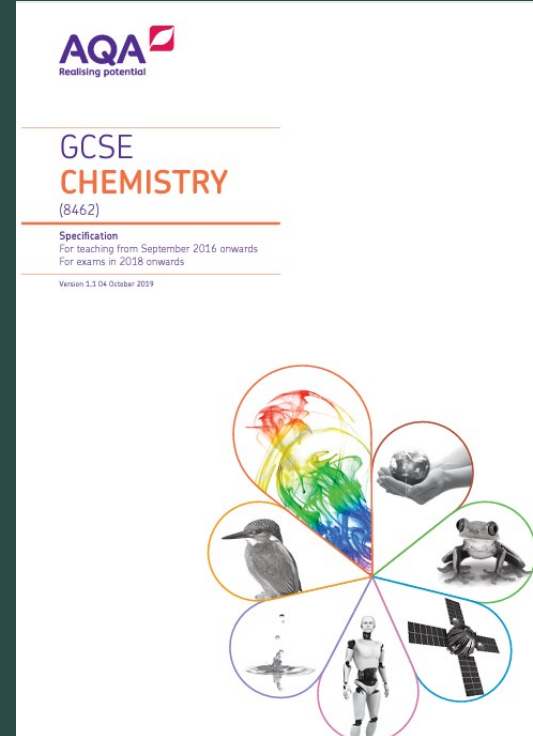
In Year 10, we begin the GCSE programme of study. There are two routes:



AQA Combined Science Trilogy: All students study the content of this course, leading to two GCSE grades in Science.

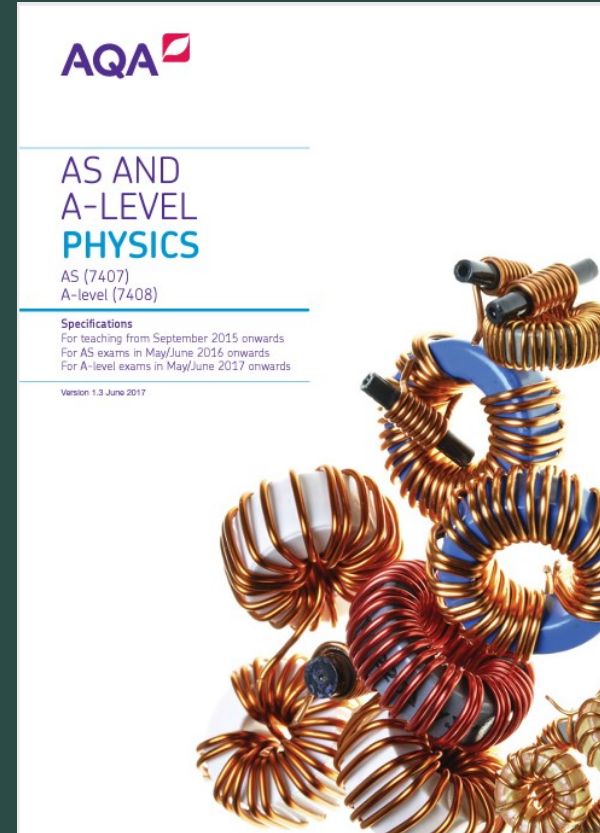
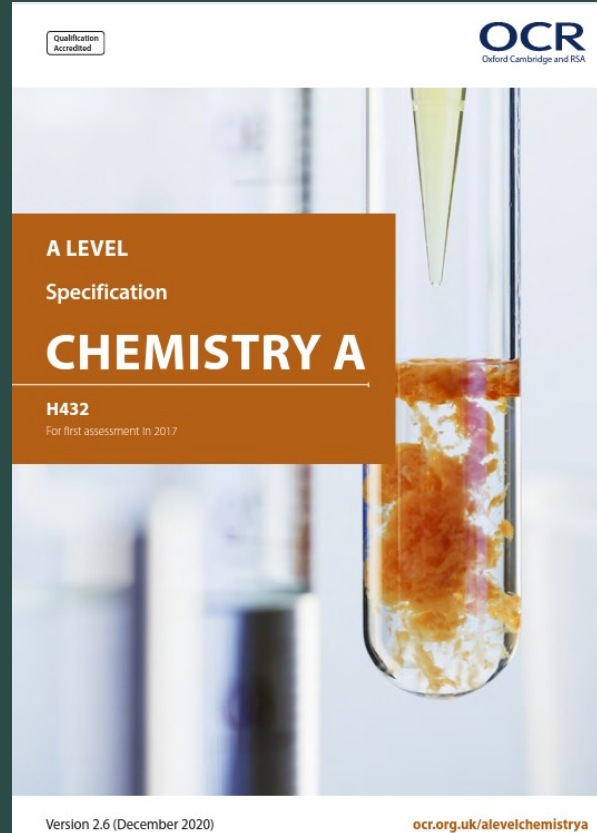
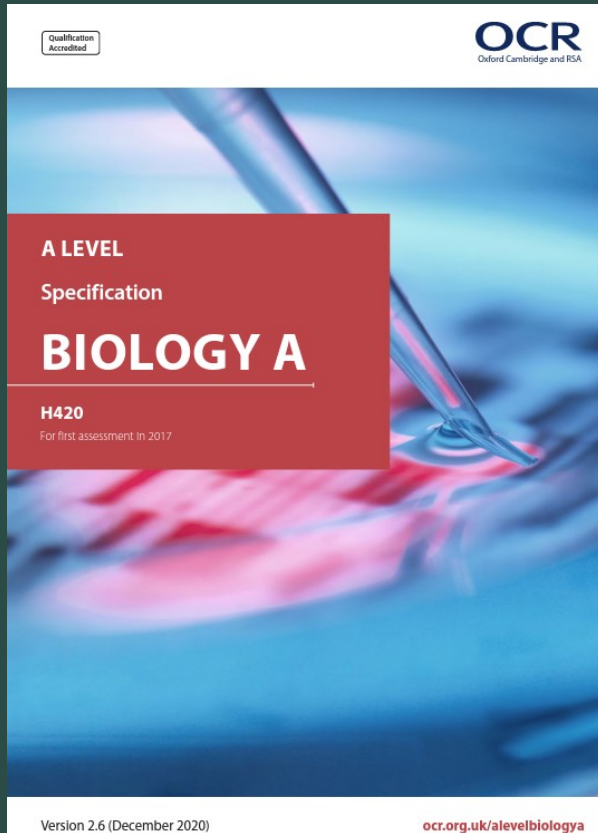


AQA Biology, Chemistry and Physics (Triple Science): Students may choose to do this as one of their options. They achieve three GCSE grades, one in each subject. These courses prepare students better for A-level study, but they are still able to progress with Combined Science, too.



Beyond GCSE

We currently offer three post-16 courses in Science:



Science Classes

Students are organised into 3 classes.

They are initially set based on their KS2 results.

All classes study the same topics, but the teaching and resources are tailored to their ability.

A formal assessment will take place each half term and we will use these results to refine setting throughout the year and at the end of each year.



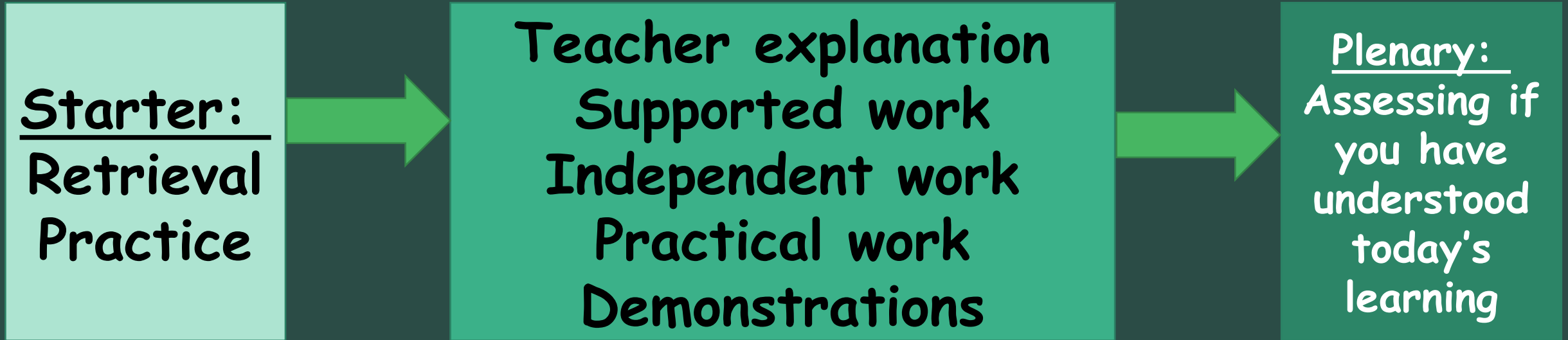
**SCIENCE is a part of
EVERYONE'S everyday life.**

Bill Nye

quote fancy

Science Lessons and Resources

A typical Science lesson:



Resources to support your child's learning:

Seneca – an online platform we use to set homework.

Core Questions – these form the basis of our retrieval practice and will feature in assessments. You can support your child by quizzing them on these questions. It doesn't have to be onerous – 10 minutes per week is enough.

Expectations in lessons

Exercise books:

- These will mostly remain at school, although teachers may allow it to be taken home to complete homework or revision.
- Every lesson should have an underlined date and title.
- We expect students to show pride in their work and their books should reflect this.

Practical work

- Risk assessments are carried out for practical work.
- Although we wouldn't use anything particularly hazardous in KS3, it is important that all students follow the lab safety rules that they are currently being introduced to.
- Although practical work takes place regularly, it will not be every single lesson. Even so, it is important students follow basic lab safety of never eating or drinking in the Science laboratories.
- When practical work does take place, students are expected to carefully follow instructions for the safety of themselves and others.

Extra-Curricular Opportunities

YOUTH
STEMM
AWARD



At present, we offer the following throughout the school:

- **STEM Club** – A range of projects are completed.
- **Youth STEMM Award** – Run by Mrs Hookway. This is open to Year 9 upwards where students complete activities to achieve a nationally recognised certificate and medal.
- **GCSE Science Live! Trip** – Run by Mrs Hookway. Open to Year 10 and Year 11 only, students attend a day of lectures by prominent scientists.
- **PD Days** – the Science department runs activities for different year groups. These differ from year to year.
- **Other STEM Events** - Last year, these included a space workshop!

Contact details

- If you have any issues or problems you would like to discuss regarding your child in Science, please contact us.
- You can either phone the school or you can email.

It is our aim that every student enjoys their Science lessons.

If pupils remember knowledge taught, they are more likely to feel confident in the subject, feel more comfortable in tests and take their learning further.