

The Science Curriculum-

The Rose School delivers educational experiences for pupils with a wide range of barriers. These barriers include anxiety, depression, behaviour, expressive language, reading levels, attendance and relationships. It is our job to overcome these barriers and equip all pupils with the skills needed to become functional in society.

-Intent-

- Distil a lifelong love of science.
- Provide a rich and varied curriculum to challenge and meet the needs of our pupils. We believe all pupils should be taught a high-quality science education that provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics.
- Ensure our pupils know that science has changed our lives and is vital to the world's future prosperity.
- Teach essential aspects of the knowledge, methods, processes and uses of science.
- From key stage 3 to key stage 4 pupils will build up a body of key foundational knowledge and concepts, pupils are encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena.
- Encourage pupils to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.
- Provide our pupils with wider opportunities in science and make links to other subjects.
- Teachers plan and challenge pupils based on the progressive curriculum maps, unique to our school and our needs.
- Monitor our schools progress in science regularly in line with our policies.

We do not put ceilings on what pupils can achieve in science and we do not hold pre-conceptions about any pupils' ability to make progress.

-Implementation-

Science at The Rose School is taught by two teachers; Miss A Sudworth teaches key stage 3 science and Mrs S Webb teaches key stage 4 science. The school subscribes to a digital teaching, learning and assessment service from Oxford University Press called kerboodle. Science staff and pupils have online access to AQA Activate for key stage 3 science and AQA GCSE Sciences (9-1).

The website address is www.kerboodle.com

- Teachers use assessment for learning to tailor lessons around our pupils and help us plan for next steps.
- In our school we strongly encourage all pupils to use specific topic related vocabulary.
- Through effective teaching of science, we develop pupil's knowledge and key skills during each topic.
- With effective subject management we are a well-equipped and resourced school.
- Regular monitoring shows that our pupils understand and apply key scientific principles within their work.
- Pupils are provided with regular opportunities to develop strategies for questioning and thinking.
- In our school we have a rigorous monitoring process which is kept up to date and works towards our school improvement plan.

-Intended Impact-

- Pupils enjoy and are enthusiastic about science in our school.
- There is a clear progression of pupil's work and teachers' expectations in our school.
- Pupil's work shows a range of topics and evidence of the curriculum coverage for all science topics.
- Pupils become increasingly independent in science, selecting their own equipment and materials, completing pupil lead investigations and choosing their own strategies for recording.
- Feedback from teachers has impact on our pupils, often with next step questions to push learning on.
- Standards in science at the end of the key stages are good and issues arising are addressed effectively in school.
- Teachers' judgements are moderated internally and externally.

- Our SLT and governors are kept up to date with developments in the way science is run in our school with subject reports, action plans and review meeting.

What do our students need to progress to further education?

-Qualifications-

We offer a broad range of qualifications to ensure each pupil is fully equipped for the next step of their educational journey. After accessing the fantastic career guidance and open evenings we have in school, our pupils can identify the career paths they wish to take and can complete the qualifications required to follow their chosen career paths. These qualifications may include Entry Level Certification in Science and GCSE Biology.

Entry Level Certificates

Entry Level Certificates are nationally recognised qualifications that give pupils the opportunity to achieve a certified award. Entry level certificate in Science encourages pupils to develop their interest and enthusiasm for science as well as develop a critical approach to scientific evidence and methods. Pupils will acquire and apply social skills, knowledge and understanding of working scientifically and its essential role in learning. Pupils will acquire the scientific skills, knowledge and understanding necessary for progression to further learning. This course also allows students to apply literacy, numeracy and information technology skills.

GCSE Biology

For those pupils that want to achieve a GCSE in this subject we also offer GCSE Biology, this is taught alongside the Entry Level Certificate in Science. Pupils studying for GCSE will be asked to complete some independent learning at home and in school to ensure subject content is covered to GCSE level.