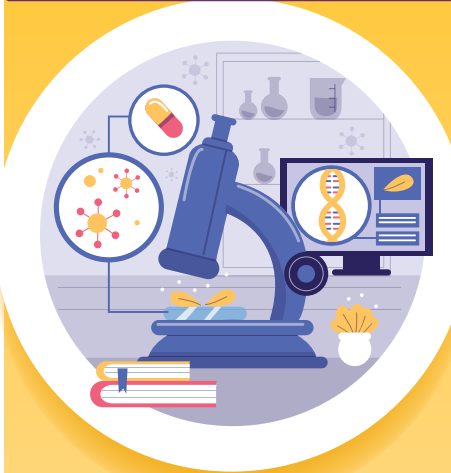


BTEC Vocational - Vision



SCIENCE

»» Curriculum Intent

The Science department at St Pauls is committed in ensuring we uphold and display the values of the school and encourage students to follow the school motto of 'love, serve and do the best that is possible' at every possible opportunity. Within our subject area we seek to instil in students an expectation of achieving beyond expectations through challenge built into lessons and the feedback given to students. Our aim is to deliver good and outstanding lessons to every student, every day. The role played by support staff in the progress of our students is valued highly, as is the input of parents and carers. We maintain strong links with all stakeholders involved with the achievement of our students in Science.

We want students regardless of ability, age, gender or race to see that Science:

- Explains the why and the how of the world around us
- Allows us to think logically about how the world works and how people function.
- Make more informed decisions about our lifestyle in order to make more informed choices.
- Gives us skills that can be applied across the curriculum to many other subjects.
- Is highly collaborative
- Opens the doors to endless possibilities.

»» Develop and Incorporate:

- The gifts we grow
- Show service to others
- Display respect and forgiveness
- Nurture spiritual and moral development
- Embrace positive relationships
- The knowledge that each student is equally important
- Consistency of expectations
- Celebration of success
- Key group needs and individual pupil needs

»» Monitoring of Impact:

- Teaching review
- Live lesson experiences
- Book scrutiny
- Learning walks
- Scheme of Learning evaluations
- Attainment and progress data
- Curriculum mapping
- Learning Talent mapping
- Independent Learning mapping
- Pupil interviews
- Staff mentoring
- Environment
- Pupil engagement
- Post-16 recruitment

»» Vision for Success

Our methodology will implement the school teaching and learning policy including strategies for:

- Planning for progress over time
- Teaching to the top and then differentiate to ensure that all students have access to the curriculum
- Plan for the acquisition of subject skills and knowledge alongside the development of the learning talents.
- Planning activities that promote thinking, creativity, risk taking and independence, using higher order thinking and questioning in order to achieve this
- Are modelling high quality use of scientific language, literacy and numeracy so that students can access examination questions, provide answers both verbal and written that include the correct scientific terminology
- As leaders across the curriculum and within our classrooms we are dedicated to embracing new ideas to ensure that our curriculum and teaching styles are constantly being developed and honed.

Science is a practical based subject leading to practical based careers so our lessons reflect this. So to deepen understanding and contextualise the subject where possible lessons will include meaningful, purposeful practical work.

Learn from yesterday, live for today, hope for tomorrow. The important thing is not to stop questioning

Albert Einstein



BTEC Vocational - Vision

BTEC Horticulture (Land Based Studies) Key Stage 4 Overview

Year 9	Year 10	Year 11
<ul style="list-style-type: none"> Health and Safety Outside Work Plastics Composting Seeds Garden designs 	<ul style="list-style-type: none"> A1 Being Organised A2 Developing a Personal Progression Plan A3 Working with Others A4 Researching a Topic 	<ul style="list-style-type: none"> B8 Growing Plants B9 Caring for and Keeping Plants Healthy B11 Using Land-Based Machinery B12 Preparing Soil for Planting

BTEC Animal Care Key Stage 4 Overview

Year 9	Year 10	Year 11
<ul style="list-style-type: none"> Health and Safety Handling Animals Where do Animals Live What do Animals Need 	<ul style="list-style-type: none"> Component 1: Animal Handling Component 2: Animal Housing and Accommodation 	<ul style="list-style-type: none"> Component 2: Animal Housing and Accommodation Component 3: Animal Health and Welfare

BTEC Applied Science L2

First Award in Application of Science

Year 12

- Unit 1 Principles of Science
- Unit 2 Chemistry and Our Earth
- Unit 3 Energy and Our Universe
- Unit 4 Biology and Our Environment

BTEC Applied Science L3

Extended Certificate

Year 12

- Unit 1 Principles and Applications of Science I
- Unit 2 Practical Scientific Procedures and Techniques

Year 13

- Unit 3 Science Investigation Skills
- Unit 10 Biological Molecules and Metabolic Pathways

BTEC Applied Science L3

Diploma

Year 12

- Unit 1 Principles and Applications of Science I
- Unit 2 Practical Scientific Procedures and Techniques
- Unit 3 Science Investigation Skills
- Unit 6 Investigative Project
- Unit 10 Biological Molecules and Metabolic Pathways

Year 13

- Unit 4 Laboratory Techniques and their Application
- Unit 5 Principles and Applications of Science II
- Unit 8 Physiology of Human Body Systems