What is your learning journey for Year 9 Science?

Content - Cells, specialised cells, microscopy, cell

Bigger Picture Focus – To understand how knowledge

of the fundamental building blocks that make up living organisms and can lead to the development of therapies

Enquiry skills

Content - Electrical charges & fields, current, voltage,

Bigger Picture Focus - To understand how demands on electricity production are increasing and leading to the need to build more power stations - is there a sustainable

Independent learning

Consolidation work Educake quizzes

Past paper practice

Interleaved tasks

6 mark exam

questions

Tasks may include:

resistance, power, circuits, National grid.

Home

division, stem cells and transport in cells.

to cure diseases.

Knowledge checks

- Ongoing AfL through lessons
- End of unit tests
- Progress checks
- Exam practice for each unit
- Required practical activities in

Year

This unit covers some of the key skills that you will use in Science:

- The maths skills that are used in science
- How to draw and analyse graphs
- Identifying variables
- How to carry out an investigation
- How to evaluate your work

Useful websites

- **BBC Bitesize**
- mrrscience.com
- **GCSEPod**
- \rightarrow Oak Academy
- Educake

Applications

The enquiry skills unit prepares you with the skills that you need to fully understand the investigative aspects of GCSE Science. Following on from this, the topics covered in Biology, Chemistry and Physics give you some of the fundamental knowledge that is used throughout the Science course.



Year 10 Science

Content - Photosynthesis, rates of photosynthesis, aerobic and anaerobic respiration, responses to

Bigger Picture Focus - To understand the role of plants in our ecosystems and how, without them, we would not be here.

B1 Cells



B4 Bioenergetics

Content - Evolution of the atmosphere, atmospheric pollution, the modern atmosphere, human

Bigger Picture Focus – To understand how the atmosphere is continually changing, and the impacts of human activities on it.



C1 Atomic structure

Content - Periodic table, element, compounds, atomic structure, groups of the periodic table. Bigger Picture Focus - To understand how theories and ideas can change with new evidence, and

P2 Electricity



P3 Particle model



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capacity, density, gas pressure

Bigger Picture Focus - To explain a wide range of observations the principles used when designing vessels to withstand high pressures and temperatures, such as submarines and spacecraft

C9 Atmosphere

how evidence may be collected

Content - States of matter, changes of state, gas particles, temperature changes & specific heat

Keep reviewing the work from these topics as you go through the year - it will help you to understand the work in Year 10 & Year 11..

