

YEAR 7 SCIENCE CURRICULUM MAP



PRIOR LEARNING AT KEY STAGE 2

The KS2 Science Curriculum requires that, by the end of KS2 children should begin to understand how to answer questions about the natural world through scientific enquiry. This means that KS2 children should be able to design and conduct a fair test, drawing conclusions from the data they have gathered. Common topics for teaching the KS2 Science Curriculum includes: Plants, animals (including humans), rocks, light, living things and their habitats, properties and changes of materials, sound, electricity, Earth, space and forces.



WHAT IS BEING TAUGHT



KEY QUESTIONS WE WILL ASK

BASELINE TEST HOW SCIENCE WORKS

TEST 1 7A CELLS 7B ACIDS & ALKALIS 7C ELECTRICITY 7D FORCES

TEST 2 7B REPRODUCTION 7E ENERGY 7D THE PARTICLE MODEL 7C MUSCLES & BONES

TEST 3 7D ECOSYSTEMS 7E MIXTURES 7A ATOMS-ELEMENTS & MOLECULES 7L SOUND

Why is safety in the laboratory important?

What are variables and how do you identify them in scientific investigations?

Why are different types of graphs necessary?

How do you determine whether something is alive or not?

How can you tell if a substance is an acid or an alkali?

What are the differences between series and parallel circuits?

Is fiction ever useful?

Why are the reproductive organs of males and females different?

Why can liquids change their shape but not their volume?

How can we reduce the amount of fossil fuels we use?

How do muscles, skeleton and lungs work together in our bodies?

Why do the offspring of the same parents not look identical?

How can we separate mixtures?

What are the differences between elements and compounds?

How does sound travel?



ASSESSMENT

Each Test will assess understanding of the core learning from the four topics. With Marking and post test Intervention will provide individualised feedback to move learning forward.



IMPACT

The Year 7 curriculum is design to give students a solid foundation of investigative techniques as well as developing key concepts of energy, cells, forces, inter-dependence and particles that form the foundation of more complex scientific ideas later in the KS3 curriculum.

Next Generation Science Curriculum Mapping

Y Pai

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

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