Why is Science important at Lingham Primary School?

Science is an important and valued subject because it is highly relevant; an integral part of daily life, from cooking and checking the weather, to recycling and nature walks.

Through science, our lives are changed for the better. We believe all pupils should be taught about the role that science plays in positive advancements, as well as scientific knowledge, methods and processes.

Advances in science are continuing to transform our world at lightning speed and we need to do our best to prepare our pupils for a future we can only imagine.

When is Science taught?

Science is taught through thematic units. The attached overview (Appendix 1) maps out which thematic units feature this subject and the Long-Term Plan (Appendix 2) clearly shows the objectives taught.

How is Science taught?

Science is taught through working scientifically (involving practical investigation, observation and application skills, enquiry and research) alongside specific taught subject knowledge. Learning takes place both inside and outside the classroom.

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What do we learn about in Science?

'Learning Means the World' Curriculum

We learn about:-

Plants
Animals, including humans
Materials
Seasonal changes
Living things and their habitats
Light and heat
Forces and magnets
Sound
Electricity
Earth and space
Evolution and inheritance
Movement

How do we assess and monitor Science?

We ensure that the planned curriculum has been taught and understood by our pupils in the following ways:

At different points throughout a unit of work the teacher may use assessment activities such as a topic quiz, a mind map or a class discussion. This formative assessment helps teachers to identify which elements of the unit of work are well developed and which may need further reinforcement. Knowledge builders and Skills ladders are referred to throughout the unit.

At the end of a unit the teacher will use a Kahoot Quiz to assess the pupils' knowledge and understanding, Overall assessment is recorded on Track Zone on a scale of 1 to 5 (1 working well below, 2 working below, 3 Working at ARE (lower), 4 Working at ARE (secure), 5 Working at greater depth.)

To help embed knowledge, our curriculum make meaningful links to other curriculum areas. Staff in all year groups have a clear understanding of the curriculum that came before and use the 'Time Machine' videos to recap prior knowledge before moving on.

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The subject leader, alongside SLT will conduct activities across the year to monitor the impact of our History curriculum. These activities will include looking at pupils' work, spending time in lessons to get a feel for what it's like to be a pupil learning History in the class, speaking with pupils about their historical understanding and about how their teacher helps them to develop their skills and remember content. There will also be discussions with the teachers delivering the lesson. The aim of these activities is to build up a connected view of how well the curriculum is learned by our pupils. This information, along with the data for Science is collected in a 'Subject Impact' document which is shared with stakeholders.

These activities enable us to evaluate the overall effectiveness of our Science Curriculum, making improvements as appropriate, so that pupils leave ready for the curriculum at Key Stage 3 and for life as an adult in the wider world.