Teaching Science at Ingleton Primary School

Aims

We believe the teaching of high-quality science ensures that all children retain and develop their early natural sense of awe, wonder and curiosity about the natural world around them; science teaches an understanding of natural phenomena. Through experiential learning we will build up a body of scientific knowledge and concepts within biology, chemistry and physics.

Children learn to ask scientific questions and begin to appreciate the way science will affect their future on a personal, national, and global level. We aim to stimulate our children's curiosity in finding out why things happen in the way that they do, predict how things will behave, and explain our findings through the use of scientific enquiry; all whilst building on the skills needed to work scientifically.

Implementation

Our learning has been organised into the following key learning concepts:

	Autumn		Spring		Summer	
KS1 Repeat yearly.	Animals including Humans		Everyday Materials and Their Uses.		Plants	Living Things and Their Habitats.
	Seasonal Changes					
KS2 Cycle A	Animals including Humans	Light	Electricity	Rocks. Evolution and Inheritance	Forces and Magnets	Living Things and their Habitats.
KS2 Cycle B	Animals including Humans	Earth and Space	Materials	Sound	Plants	Living Things and their Habitats

Biology	Chemistry	Physics

Our curriculum is designed to consider our mixed age range classes throughout the school. Each teacher ensures appropriate challenge and differentiation to meet the needs of all children.

Please see Progression of skills documentation for the Knowledge and Understanding, and Working Scientifically objectives.

Assessment

Teachers and children assess their learning continuously throughout lessons; spaced practice and retrieval are used to assess knowledge and understanding from previous units taught, as well as previous lessons. At the beginning of a new unit, children carry out low stakes assessments to see what they already know and then at the end of a unit, this same assessment is carried out to inform teacher judgement.

Children are assessed at the end of every taught unit in science. Our assessment systems enable teachers to make informed judgements about the progress our children have made within the Knowledge and Understanding of the units taught as well as children's Working Scientifically skills.