



Science

Curriculum Expectations

Intent

In science we intend for children to have the opportunity, wherever possible, to learn through varied systematic investigations, leading to them being equipped for life to ask and answer scientific questions about the world around them. As children progress through the school, they build on their skills in working scientifically, as well as on their scientific knowledge, as they develop greater independence in planning and carrying out fair and comparative tests to answer a range of scientific questions. As part of learning the children will use vocabulary mats to help with new terminology they have learnt and also reinforce key scientific vocabulary from each unit.

Implementation

Science will be taught through engaging, motivating and progressive units across the school. Science lessons will:

- * start with an engagement/thought provoking stimulus
- * lead to some 'key enquiry questions'
- * take the questions into a scheme of work
- * reinforce use of key vocabulary and concepts
- * allow pupils to evidence their learning using scrapbooks, photographs and performances

Impact

To evidence that our pupils can do more and know more in Science we will:

- ✓ Collate evidence to monitor progress
- ✓ Provide vocabulary mats to support learning
- ✓ Interview pupils
- ✓ Monitor teaching
- ✓ Review schemes of work
- ✓ Follow achievements through progression maps

Science in Barndale

Science is an incredibly important part of our curriculum but due to the abstract and technical aspects of this the complete curriculum coverage would prevent any type of depth in learning. As such we have streamlined our offer to ensure the learning that takes place can be taught at a depth that is meaningful and appropriate. We map the entirety of the national curriculum so that if any pupils are showing an interest or capacity to go beyond the scope of the curriculum then this can be offered. As a small school we don't have the facilities to offer the specialist equipment and resources but will seek these from partnership settings, if required.

Science Week shall be celebrated on an annual basis and staff will continue to proactively invite external provision in to perform workshops and shows.

Area	Cycle 1 – Year 2022-2023						Cycle 2 – Year 2023-2024					
	Seasonal Changes	Light & Sound	Animals inc Humans	Living Things & Habitats	Everyday Materials	Properties of Materials	Forces, Magnets & Electricity	Earth & Space	Evolution & Inheritance	Plants	States of Matter	Rocks
Engage Ladybirds	EYFS: Understanding the World											
Engage/Activate Bees	B Squared Step 1											
Activate Hedgehogs	B Squared steps 1 & 2											
Activate Squirrels	B Squared steps 3 & 4											
Activate Foxes	B Squared steps 5 & 6											
Activate Badgers	B Squared steps 7 & 8											
Consolidate Deer	ASDAN Lifeskills Challenge- Science ** Entry 1- Level 1 **											