Intent:

At Hensingham Primary School, our children are **SCIENTISTS!** Our **intent** is to give every child a broad and balanced Science curriculum which enables them to confidently explore and discover what is around them, so that they have a deeper understanding of the world we live in. We want our children to love science. We want them to have no limits to what their ambitions are and grow up wanting to be astronauts, forensic scientists, toxicologists or microbiologists. We want our children to remember their science lessons in our school, to cherish these memories and embrace the scientific opportunities they are presented with! To achieve this, it involves exciting, practical hands on experiences that encourage curiosity and questioning. Our aim is to stimulate and challenge children, helping them secure and extend their scientific knowledge and vocabulary, as well as promoting a love and thirst for learning.

Implementation:

- Introduce children to a wide range of significant scientists appropriate to the topic.
- Taught in specifically arranged science units as shown in the whole school curriculum overview.
- In line with the national curriculum and are aided by Developing Experts.
- We build upon the learning and skill development of the previous years (supported with the skills document).
- Working Scientifically skills are embedded into relevant lessons
- New vocabulary and challenging concepts are introduced through direct teaching. This is developed through the years, in-keeping with the topics.
- Planning involves teachers creating engaging lessons, often involving high-quality resources to aid understanding of conceptual knowledge – this is aided by the use of Developing Experts.
- Teachers use 'in-the-moment questioning' as well as planned questions in class to test children's knowledge and skills. Teachers assess children regularly (through questioning, retrieval practice and quizzes) to identify those children with gaps in learning.
- Enriched through trips or visits from local charities such as West Cumbria River Trust.

Impact:

- Science lessons are fun, engaging and high-quality and provide children with the foundations and knowledge for understanding the world.
- Through various workshops, trips and interactions with experts, children have the understanding that science has changed our lives and that it is vital to the world's future prosperity.
- Children learn about careers in Science from Developing Experts and therefore all children feel they are scientists and capable of achieving.
- Children at Hensingham Primary School enjoy science and this results in motivated learners with a solid scientific understanding.

Subject: Science

School key strand links -

- Creating a language rich environments
- Outdoor education (garden and forest)
- Reading
- Mathematics (measuring)

SEND:

All children are able to access the curriculum through the use of adaptive teaching.

Cross curricular links:

Use of writing through English where it lends itself to units. Maths is incorporated through measurements when conducting experiments. Reading and comprehension skills are use throughout each lesson when reading documents to support learning. Some topics link with outdoor education with the use of the forest and garden.

Planning:

The basis of our planning comes from Developing experts, which follows the National Curriculum. This is used to support us in creating fun, engaging and memorable lessons.

Next Steps:

- Ensure a consistency with assessing and monitoring the 3 strands and working scientifically.
- Deliver CPD on working scientifically and writing up reports to address staffs self-identified needs.
- Support ECT's and Teach First student to ensure procedures are followed
- Develop use of trips and visitors to support learning.
- Adapt MTP to show support for SEND.

Monitoring and Assessment

- End of unit showcase of skills activity
- Quizzes on developing experts.
- Formative assessments (showcase/Science writing/investigation reports)
- Book looks, learning walks, pupil voice, staff meetings and QA of MTP.
- In the Early Years, children's learning is recorded via adult observations and recorded on Tapestry.

Term	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn 1	Understanding the World: N- Senses, Properties of Materials R- Seasons, Natural World Around Me,	Animals Including Humans – About animals	All about diet and health	Rocks	Sound	Living Things and their Habitats	Electricity
Autumn 2		Animals Including Humans – About Me	Animals including humans- growth	Exploring the world of plants	Food and Digestion	Earth and Space	Light
Spring 1	Understanding the World: N- Lifecycles of humans and plants R- Changing Seasons, Environment	Exploring Everyday Materials	Everyday materials	Animals including humans – what makes us	Classifying Living Things and their Habitats	Properties of Materials	Evolution and inheritance
Spring 2		Introduction to Plants	Living things and their habitats	Plant- life cycles	States of Matter	Explore Life Cycles	Blood and transportation
Summer 1	Understanding the World: N- Forces, Materials R- States of Matter, Observation	Seasonal Changes	Habitats from around the world	Light	Electricity	Forces	The heart and health
Summer 2		Uses of Everyday Materials	Plants – growth and care	Forces and magnets	Nature and the Environment	Changes of Materials	Living things and their habitats