Weare Academy C of E First School

Statement of Intent for Science

Our School Vision

All Can Achieve
Everyone is valued and respected
Relationships grow through kindness and compassion
We appreciate the importance of forgiveness
We recognise and are thankful for the opportunities we have
We are responsible for making the most of ourselves, each other and the world around us

Intent

Why do we teach this?

At Weare Academy First School, we aim to prepare our children for their future with a "hands –on", inquiry-based science curriculum that enables them to confidently explore and discover the world around them. We will motivate and actively engage our children, to nurture and grow their curiosity. Core scientific knowledge and skills are taught through direct teaching, experimentation and exploration. Our intent is for all our children to be life- long learners who are: inquisitive, independent thinkers, confident to ask 'Big Questions' and who are well prepared for their future in the ever changing world.

Implementation

What do we teach? What does this look like?

Our whole curriculum is shaped by our school vision which aims to enable all children, regardless of background, ability, additional needs, to flourish to become the very best version of themselves they can possibly be.

We teach the National Curriculum, supported by a clear skills and knowledge progression. This ensures that skills and knowledge are built on year by year and sequenced appropriately to maximise learning for all children.

We use a range of resources to plan from including Hamilton and Bath TAPS resources

Specific Science units are taught in each year group, building on from previously taught units and skill coverage. Teachers are free to change the order areas are taught to make cross curricular links as long as all areas are covered over the year.

It is important that children develop the skills of a scientist by fully immersing them in all areas of the subject through:

Well Planned Lessons to engage and provide all children with the opportunity to develop their scientific skills and knowledge.

Thoughtful Questioning to encourage deeper thinking, promote curiosity and develop consideration of other scientific explanations.

Discussion to allow children to share, present and consolidate their knowledge.

Themed Days to celebrate and raise the profile of science and its relevance in our lives.

Local Links, where possible, links will be made to science and scientists within the local community to add to the children's science capital and highlight the relevance and possibilities of science to them.

External trips and visits to promote their interest and give the opportunity to develop their skills and knowledge beyond the classroom.

Impact

At the end of each year children will have gained a progressive and deepening understanding of core scientific skills.

Pupil Voice: through discussion and feedback children talk enthusiastically about their science lessons and show curiosity and interest in the areas they have explored.

Evidence of Knowledge: Children have deep scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics. They will appreciate how science has changed our lives and is vital to the world's future.

Evidence of Skills: Children use scientific knowledge to explain what is occurring, predict how things will behave and analyse causes.

Breadth and Depth: Teachers plan opportunities for children to learn through making links across the curriculum and deepen their understanding and enjoyment in a variety of scientific studies. Pupils become curious and are inspired to further their knowledge.