

Subject: Science

The 3 I's - Our Vision for Our Subject

Intent:

Science teaching at Athersley South Primary School aims to give all children a strong understanding of the world around them, while acquiring knowledge and skills to help them think and work scientifically.

At Athersley South we want children to enjoy their science lessons and assume the role of a scientist whilst they are conducting their experiments, therefore we offer many opportunities within our topics for children to be able to do this. We also ensure that the skills linked with working scientifically are embedded in each topic the children cover. Topics such as: materials, plants and my body are taught in Key Stage One and developed upon in Key Stage Two. This enables children to build upon their skills and prior knowledge throughout their journey through school.

Children are encouraged to plan, conduct and evaluate experiments as well as being given the opportunities to question the world around them and become independent learners by exploring answers for their scientific questions.

Implementation:

Science topics are allocated to each year group following the National Curriculum, recorded in our curriculum map. We follow a 2 year- rolling programme. A 2-year plan has been developed which ensures that mixed age classes will cover all the national curriculum science objectives during their time at Athersley South. Science is taught as a weekly lesson.

As part of this process, teachers need to plan the following:

- A cycle of lessons for each topic, which carefully plans for progression and depth;
- Opportunities for children to develop their skills in working scientifically;
- A regular low stakes quiz used to support learners' in knowing more and remembering more;
- Challenge questions for pupils to apply their learning in a philosophical/open manner;
- Experiencing a wide range of scientific vocabulary which they will learn, use and understand;
- A means to display and celebrate children's science work in their class;

Work is monitored by the subject leader regularly throughout the year in order to ensure consistency and progression.

Impact:

Our science curriculum at Athersley South Primary is high quality, well thought out and is planned to clearly display progression throughout the age ranges. If children are keeping up with the curriculum, they are deemed to be making good or better progress. In addition, we measure the impact of our curriculum through the following methods:

- A reflection on standards achieved against the planned outcomes;
- A celebration of learning which demonstrates progression across the school;
- Pupil discussions about their learning; which includes discussion of their thoughts, ideas, processing and evaluations of work;
- Assessment against the year group expectations for skills and knowledge.