

Design and Technology

Intent

At Abbey Hey Primary Academy we aim to provide all children with a broad and balanced curriculum which prepares them for life beyond primary education. We encourage children to use their creativity and imagination, to design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. Design and Technology is an inspiring, rigorous and practical subject. It can be found in many of the objects children use each day and is a part of children's immediate experiences. Design and Technology encourages children to learn to think and intervene creatively to solve problems both as individuals and as members of a team.

At Abbey Hey the Design and Technology curriculum combines skills, knowledge, concepts and values to enable children to tackle real problems. It can improve analysis, problem solving, practical capability and evaluation skills. We aim to, wherever possible, link work to other disciplines such as mathematics, science, engineering, computing and art. The children are encouraged to become innovators and risk-takers. High-quality design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of the nation.

Aims

At Abbey Hey the curriculum for design and technology aims to ensure that all pupils:

- develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world
- build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users
- critique, evaluate and test their ideas and products and the work of others
- understand and apply the principles of nutrition and learn how to cook.

Implementation:

Art at Abbey Hey Academy at Key Stage 1 and Key Stage 2, is taught, generally, in alternate half-terms and is cross curricular. In EYFS art is taught through the EYFS framework through focused modelling and daily provision activities. Teachers are provided with an additional three planning days per year on top of their PPA, to plan their curriculum. As part of this planning process, teachers need to plan the following:

- All lessons are planned around Rosenshine's Ten Principles of Instruction framework and we believe that this alongside of Kagan structures promotes cooperative learning as well as enquiry.
- A cycle of lessons for each subject, which carefully plans for progression and depth using the TASC wheel. This is recorded in their sketch book.
- Children sketch books should show the build-up of knowledge and skills needed to create a purposeful product.
- A sketch book for each pupil that stays with them throughout Abbey Hey and acts as a record of progression and reflection.
- Children will be given the opportunity in each lesson to evaluate an aspect of their learning.
- Trips and visiting experts who will enhance the learning experience.
- A means to display and celebrate the pupils' design and technology work in their class.

Impact:

Our Design and Technology Curriculum is high quality, well thought out and is planned to demonstrate progression year on year, giving pupils the skills and knowledge and vocabulary that they need to move forward in their learning, alongside opportunities to apply their knowledge to different situations. 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:

- Pupil discussions about their learning; which includes discussion of their thoughts, ideas, processing and evaluations of work.
- A reflection on standards achieved against the planned outcomes;
- Each year group will have the opportunity to share and discuss their new product with a different year group.