

Coalway Community Infant School

Design and Technology Curriculum Intent



Whole school Vision

School Vision

- We will nurture our children to become happy, independent, confident and valued individuals who will be able to make healthy, happy relationships with a range of people. They will develop positive personal traits, values and attitudes, which will prepare them for later life experiences.
- We will ensure all of our children experience a broad, rich curriculum, tailored to the unique needs of each individual child.

Our children will have developed knowledge, understanding and skills across the curriculum by the time they leave us, ensuring that they have the skills necessary for their future success.

We will focus in particular on supporting the development of our children's early communication and language skills, early reading and early mathematics skills, to accelerate their progress and prepare them for the next stage of their education.

- We will enable our children to believe in themselves and be aspirational, to achieve the highest possible standards and be successful.
- We will help our children develop a love of and enthusiasm for learning, where they are proud of themselves and celebrate everyone's achievement.
- We will care for and support everyone within our 'Coalway family', establish good communication and relationships, and work together to provide the best outcomes for all of our children. We will continue to develop the children's understanding of their belonging within the community and the wider world and strive to develop strong successful partnerships beyond the school.
- We will ensure that all children try new things, perform in a show, learn outdoors, including within our beautiful Forest of Dean setting, have experiences within the local community, visit new places and have the opportunity to learn to swim.

Our children will leave Coalway Infants with positive, happy memories, having had a wealth of experiences and a range of academic, creative, sporting, cultural and spiritual opportunities.

Design and Technology vision

At Coalway Infants, we believe that Design and Technology encourages children to think imaginatively and become problem solvers who can work well independently and with their peers.

How is Design and Technology taught?

Our curriculum aims to inspire pupils to be innovative and creative thinkers who have an appreciation for the product design cycle through designing, making, and evaluating. The coherent, sequenced curriculum enables children to develop the confidence to take risks, through drafting design concepts, modelling, and testing. Children are encouraged to be reflective learners who evaluate their work and the work of others. Through our ambitious, sequenced curriculum, we aim to build an awareness of the impact of design and technology on our lives and encourage pupils to become resourceful, enterprising citizens who will have the skills to contribute to future design advancements. Using small steps, our curriculum enables pupils to meet the end of key stage attainment outcomes in the National Curriculum.

Golden threads

- Be aware of sculptures in our locality e.g. Forest of Dean Sculpture Trail, the sculptures in the school environment.
- Children make and design for real life situations, such as making soup to sell to the parents.
- Development of early communication, language and reading skills are developed using planned stories to encourage discussion and inspire children to ask questions.

Why is Design and Technology taught in this way?



EYFS

Our Design and Technology curriculum starts from the Early Years Foundation stage. Teacher's plan continuous provision in a stimulating environment. This provides opportunities for children to learn in their own unique way and caters for all styles of learning. The enhanced provision is built upon gradually enabling children to build on skills and practice these regularly throughout each term. Every term focusses on key skills and knowledge that require deliberate practice. Design and technology also has planned units with small step lessons. These help to provide a structured 'small step' program that is all-inclusive and is able to teach key skills such as choosing the correct material to make a boat or choosing a resource for a particular purpose e.g. using scissors and glue effectively.

KS1

Through our Design and technology curriculum , pupils respond to design briefs and scenarios that require consideration of the needs of others, developing their skills in five key areas:

- Mechanisms
- Structures
- Textiles
- Cooking and nutrition (Food)

Each of our key areas follows the design process (design, make and evaluate). Our curriculum is sequential and allows for key areas to be revisited repeatedly with increasing complexity, allowing pupils to revisit and build on their previous learning.

Lessons are engaging and appeal to those with a variety of learning styles. Teachers adapt, where necessary, ensuring every lesson can be accessed by all pupils and opportunities to stretch pupils' learning are available when required.

How does Design and Technology meet our curriculum intent?

Our Design and Technology curriculum puts the necessary building blocks in place to support children's learning as they move through the school. Our whole-school approach ensures progression is cumulative. This means that, where appropriate, children's learning from EYFS is revisited in KS1 and their learning from year 1 is revisited year 2, each time using the knowledge, understanding or skills in a more sophisticated way.

Our curriculum's starting points are the Early Learning Goals, followed by the National Curriculum for KS1. The curriculum is supported by the scheme 'Kapow'. This has been adapted to suit the children's needs and desired outcomes. The long-term plan ensures complete coverage and progression in skills and knowledge. Medium term plans are clear and show the small, sequential steps for achievement. Key vocabulary and knowledge organisers are used in every lesson. Children document their 'design, make and evaluate' process using plans, diagrams, written annotations and photographs.

Children are encouraged to be creative and innovative. The skills learned in D&T also help with learning across the curriculum. Knowledge about the properties of materials helps in science and the practice of measuring accurately helps in maths.

We believe that we have a duty to teach the children in our school how to make nutritious food and highly value this as a life skill. As a result, we have placed an emphasis on this when designing our curriculum ensuring that every year group is taught about food and nutrition.

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Retrieval questions are built into the plans to help children revisit, do more, know more and remember more. By the time our pupils leave Coalway Infants, they will have:

- An excellent attitude to learning and independent working.
- The ability to use time efficiently and work constructively and productively with others.
- The ability to carry out research, show initiative and ask questions
- The ability to act as responsible designers and makers, working carefully and safely.
- A thorough knowledge of which tools, equipment and materials to use to make their products.
- A passion for the subject and a desire to explore their learning further in the future.

Subject Leader drivers 2023/24:

- To ensure assessment is embedded across all year groups
- To ensure that all aspects of D&T are given equal weighting and that evidence of these aspects are shown in Folders
- Ensure tracking is accurate and staff are aware of the end points for D.T and are confident in making adaptations to the lessons where needed to support SEN