

Design and Technology-revised March 25



Intent- what are our curriculum aims?

At Birtley House School, children will use creativity and imagination to design and make products that solve relevant and real problems within a variety of contexts. The intent of our DT curriculum is to:

- 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.
- To develop the children's knowledge of tools and to encourage children to select appropriate tools and techniques for making a product, whilst following **safe procedures**.
- To develop ICT skills to allow children to **program and control products**, to nurture their understanding of mechanical and electrical systems.
- To reflect on and evaluate present and past design and technology, its uses and effects.
- To promote pupil's spiritual, moral, social and cultural development.

At Birtley House we intend to build a Design Technology curriculum which is **inspiring, rigorous, and practical**. We want our children to use 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**. We intend for all children to acquire appropriate **subject knowledge, skills and understanding** as set out in the National Curriculum. It is our aim to create strong cross curricular links with other subjects such as Mathematics, Science, Computing, and Art. We want DT to prepare our children, to give them the opportunities, responsibilities, and experiences they need to be successful in later life.



Implementation- How do we achieve our aims?

Design and Technology is a crucial part of school life and learning and it is for this reason that as a school we are dedicated to the teaching and delivery of a high-quality DT curriculum.

This is implemented through:

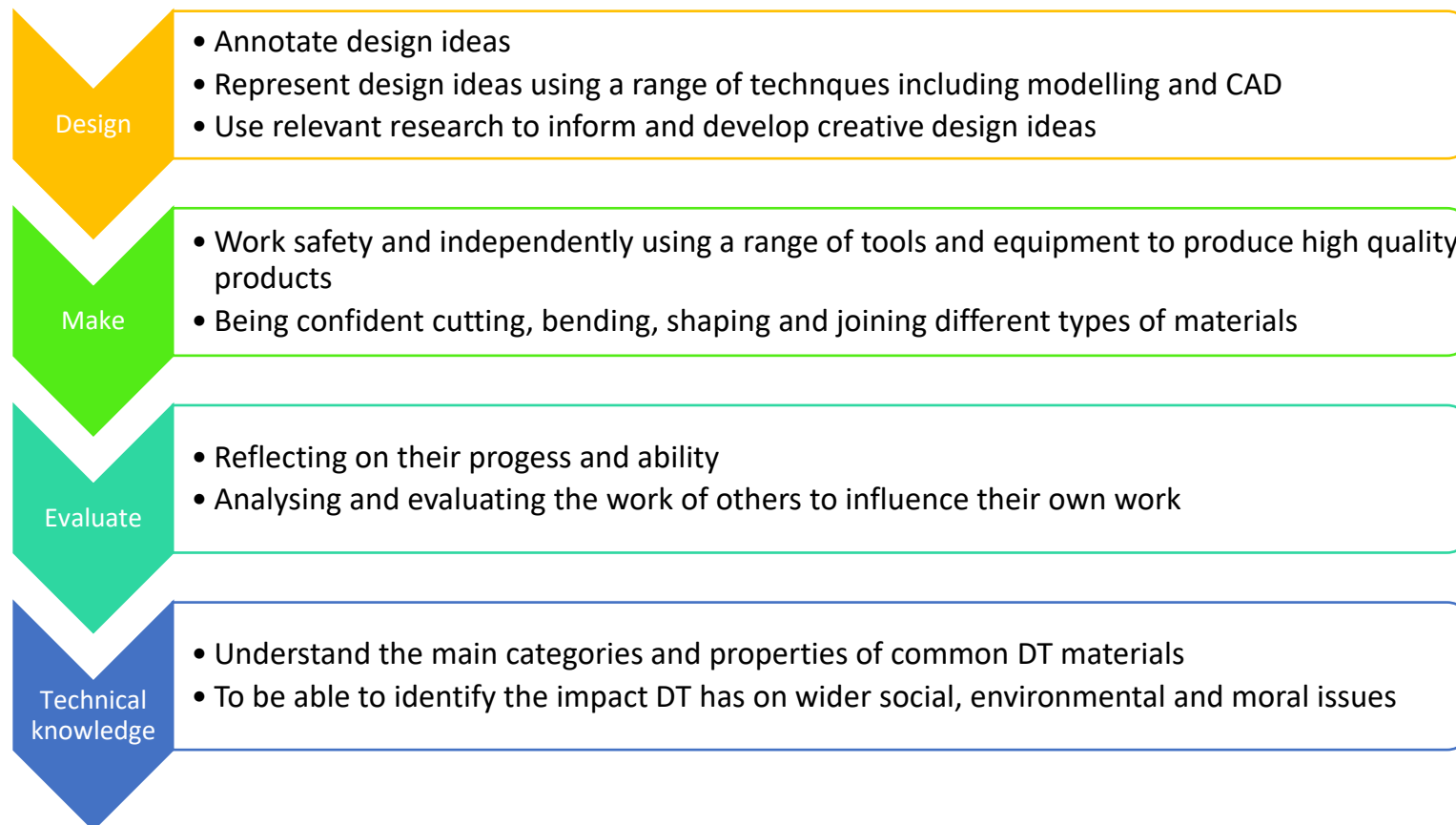
- ✓ A well thought out, whole school, yearly overview of the DT curriculum, **which allows for progression** across all classes and year groups in all areas of DT (textiles, mechanisms, structures, good and electrical systems)
- ✓ Well planned and resourced projects providing children with **a hands-on and enriching experience**
- ✓ A range of skills being taught ensuring that **children are aware of health and safety issues** related to the tasks undertaken
- ✓ Teachers being given ownership and flexibility to plan for DT; often teaching DT as a block during one term and given extra time to complete it during whole days to allow children to be inventive and reflective of their work
- ✓ Each project addressing the principles of **designing, making, and evaluating and incorporating relevant technical knowledge** and understanding in relevant contexts
- ✓ Pupils being introduced to specific designers, chefs, nutritionists, etc. helping to engender an appreciation of human creativity and achievements and increase the cultural capital from which they can draw in the future.

EYFS in Otters:

During the EYFS pupils explore and use a variety of media and materials through a combination of child initiated and adult directed activities. They have opportunities to learn to:

- Use different media and materials to express their own ideas
- Use what they have learnt about media and materials in original ways, thinking about form, function and purpose
- Make plans and construct with a purpose in mind using a variety of resources
- Develop skills to use simple tools and techniques appropriately, effectively and safely
- Select appropriate resourced for a product and adapt their work where necessary
- Cook and prepare good adhering to a good health and hygiene routines

Throughout the curriculum, the children follow a design, make, evaluation model to develop their knowledge and skills:



**Impact- How will we know we've achieved our aim?**

Children will have clear enjoyment and confidence in DT that they will then apply to other areas of the curriculum. Through carefully planned and implemented learning activities the pupils develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world. They gain a firm foundation of knowledge and skills to see them equipped to take on further learning when they leave to go to secondary school.

Pupil's skills and knowledge are assessed continually by the class teacher, throughout lessons and a summative assessment is completed termly alongside the skills document used for planning. This informs the curriculum leader of any further areas for curriculum development, pupil support and/or training requirement for staff. EYFS pupil's progress and attainment tells us whether each individual child is meeting the expected standards for EYFS.

At Birtley House School we aim that, by the time children leave our school, our children will have a wide understanding which they will be able to use to create original, imaginative, inventive and distinctive designs and projects.