

Design Technology (DT) at HFJS

Three C's - through our design technology curriculum, pupils are given the opportunities to...

Be Curious

In DT children are encouraged to be curious by giving them the opportunity to explore products and design of existing products. Children are encouraged to ask questions so that we can investigate and delve deeper thinking about the reason for design and design criteria.

Be Confident

Children are taught the practical skills to be able to design and make products confidently. Armed with the appropriate knowledge they can make decisions about design for their products and can reason those choices securely using examples from their experience.

Be Creative

Units are designed to allow children to be creative, they are given an open title so that children have the freedom to design creatively.
Children are encouraged to think outside the box and look at things in new perspectives so they can innovate existing designs and improve them.

Curriculum Drivers - within out DT curriculum we encourage...

Diversity and Equality	Ambition	Resilient Learners
<p>During exploration lessons children are taught to have an open mind, to who will be using the products and to raise awareness of all needs. We will teach children that successful designs can build positive relationships and make people feel a part of a community. Children will evaluate products, to say whether a/their product meets the needs of the intended user. Learners will be taught how designs are completed with a purpose, to aid people in a range of circumstances. Children's awareness will be drawn to a diverse audience so they can tailor their products to suit all needs.</p>	<p>Children are taught to design ambitious products and have ambitious ideas, that meet success criteria. They are encouraged to think outside of the box to try new methods, technologies or materials that will make their products successful. Children are encouraged to be confident in their designs, by giving reasons for design features and therefore boosting their self-esteem.</p>	<p>Though the teaching of technical skills we encourage learners to be resilient. They can explore how things works and make working prototypes to aid their understanding. Learners are then able to rebuild and make working models and products using these skills. Children can try alternative materials for their designs to explore which works best, learning from these experiences and building confidence.</p>

Key concepts - within our DT curriculum we encourage...

Explore	Make using practical skills	Design/Evaluate
<p>Children will explore the ideas behind a design, they will link designs to themes, consider the purpose and intended users of products. This will be done in a variety of ways including: research including surveys, questionnaires and design success criteria.</p> <p>Children will evaluate the strengths of existing designs and their flaws, compare current designs, and consider how they can be improved.</p>	<p>Children will use a variety of tools, equipment and resources to make products and practice using their technical skills. They will make prototypes and test their designs for functionality. Children will be able to select materials from a range provided, choosing one most suited to the design and task. Children will use technical vocabulary, naming products, tools and individual components of designs. Children will test products to see how they work and how they are used, considering preferences, speed and ease of use.</p>	<p>Children will study the design of existing products and evaluate them. They will compare these to their own generated designs. They will also evaluate prototypes and finished designs to consider the successes and weaknesses, to improve and learn from their experiences. Children will draw upon their existing knowledge of products, design and technical skills to inform their design process, this will connect to many other areas of the curriculum like - science, RE and maths.</p>

End Point - By the end of KS2...

All pupils will be taught the knowledge, understanding and skills needed to understand the processes of design and making. This will be done in a variety of units including: cooking and nutrition, mechanisms, electrical systems, structures and textiles. The lesson will offer creative, engaging and practical learning opportunities that children will remember and enjoy.