

D&T Overview

Cycle A

EYFS & KS1	<p>Why have buildings changed over time? *House build*</p> <p>Children will build a house fit for a specific purpose, considering the materials they are using, how they are joining them and they are ensuring it is strong enough to free stand</p> <p>EYFS Focus – To use tools accurately KS1 Focus – strengthening a structure</p>	<p>Are Humans the most powerful thing on Earth? *Weather Station*</p> <p>Children will create a working weather station with moving parts, focusing on wind and rainfall</p> <p>EYFS Focus – to construct with a purpose KS1 Focus – build a functional product with moving parts</p>	<p>Why do people go on journeys? *Vehicles*</p> <p>Children will create a push along vehicle fit for a journey of their choice</p> <p>EYFS Focus – to understand how everyday objects work (toys) KS1 Focus – To use axels</p>
Lower KS2	<p>How did Ancient Egyptians use rivers? *Water transportation*</p> <p>Children will take inspiration from a Shaduf to educate others about how the Egyptians transported water from the Nile</p> <p>Focus – Understanding a mechanical system – levers</p>	<p>What natural resources did humans use in Stone Age and Bronze Age Britain? *Create a scale building for a purpose*</p> <p>Children will use a range of natural resources to create a scale model of a building</p> <p>Focus – apply their understanding of how to strengthen structures</p>	<p>How does the Earth negatively impact on humans? *Water filtration device*</p> <p>Children will select materials and create their own working water filtration device</p> <p>Focus – Select a range of materials based on their functional qualities</p>
Upper KS2	<p>How has North America changed as result of British Colonisation? *Flags of celebration*</p> <p>Children will create their own quilted flags taking inspiration from traditional North American designs to celebrate their own lives and successes.</p> <p>Focus – selecting appropriate methods and resources to finish a product accurately</p>	<p>How has Brazil changed as a result of British Colonisation? *Structured Carnival Costume *</p> <p>Children will design and make their own carnival costume with freestanding elements connection to a wearer.</p> <p>Focus – Applying understanding of how to strengthen structures</p>	<p>What was the impact of the Viking Invasion on Britain? *Baking traditional bread*</p> <p>Children will bake their own bread on an open fire in preparation for a Saxon feast.</p> <p>Focus - preparation and creating using a specific technique</p>

Structures	Mechanisms	Textiles	Cooking	Computer-controlled products
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Cycle B

- Throughout the year the Design and Technology curriculum will be supported by themed days and standalone challenges that will incorporate various aspects of this subject.

KS1	<p>Is exploring important? *Dish of the day*</p> <p>Children will create a fresh fruit or salad dish using ingredients found from a given country</p> <p>EYFS Focus – understand foods that healthy and foods that are not KS1 Focus – select appropriate utensils to peel and cut</p>	<p>Do inventions make the world better? *Dragon’s Den*</p> <p>Children will design and make a prototype item clothing fit for a purpose of their choice to present to the ‘Dragons’.</p> <p>EYFS Focus – to join shapes and materials together KS1 Focus – to select a materials for a purpose</p>	<p>How do humans use water? *Water ways*</p> <p>Choosing materials and equipment from a given selection, children will create a water way structure capable of transporting water from a high to low point.</p> <p>EYFS Focus – planning and adapting ideas KS1 Focus – selecting appropriate materials for a given purpose</p>	
Lower KS2	<p>Why did Mayans create art? *Creating a hot drink fit for a feast*</p> <p>Taking inspiration from Mayan hot chocolate recipes, children will select their own ingredients to create a hot drink suitable for a Mayan feast</p> <p>Focus – understanding where ingredients originate from, and being able to prepare ingredients</p>	<p>Why did Romans create art *Applique banner*</p> <p>Children will create an applique image taking inspiration from tradition Roman Standards</p> <p>Focus - constructing and joining of materials</p>	<p>What art can I make inspired by our local area? *Fair ground game*</p> <p>Children will take inspirations from a traditional country fair game, which would have been seen a past fair in our area.</p> <p>Focus – incorporating a working circuit and bulb or buzzer into a product</p>	
Upper KS2	<p>Did Leonardo Da Vinci change the world? *Cam toy*</p> <p>Children will select an appropriate cam to create their own toy.</p> <p>Focus – understanding a mechanical system - cams</p>	<p>Did Nikola Tesla change the world? *Wind up powered car*</p> <p>Children will build their own car powered by a wound up elastic band, which will then be used in a ‘distance race’.</p> <p>Focus – select appropriate tools and materials</p>	<p>Did Adolf Hitler change the world? *Morse Code Machine*</p> <p>Children will create their own Morse Code machine that can be used to send messages to a peer.</p> <p>Focus – the use of electrical systems within a product (planned using computer software)</p>	<p>Did Rosa Parks change the world? *Multi-Cultural Doll*</p> <p>Children will create a doll that can be used to teach children about a chosen culture or race.</p> <p>Focus - Selecting a range of materials for aesthetics and purpose</p>

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