

DESIGN AND TECHNOLOGY CURRICULUM OVERVIEW

Design and Technology at Fulwell Infant School Academy

At Fulwell Infant School Academy, our Design and Technology curriculum develops creativity, problem solving and practical skills. Children learn to design, make and evaluate purposeful products linked to real-life contexts. Through carefully sequenced learning, children develop technical knowledge, safe use of tools and increasing independence from Nursery through to Year 2.

Children revisit key concepts including designing, joining, building, testing and evaluating so that knowledge and skills are remembered and built upon over time.

Year group	Autumn Term	Spring Term	Summer Term
Nursery	<p>Lines of Enquiry Settling, Identity and Early Exploration Seasonal Change and Storytelling</p> <p>Learning Focus</p> <ul style="list-style-type: none"> • Exploring and joining materials • Building simple structures • Investigating how things fit together • Beginning junk modelling • Exploring tools safely <p>Skill Development</p> <ul style="list-style-type: none"> • Manipulating and joining materials • Building with blocks and recycled materials • Exploring texture, shape and structure • Talking about creations <p>Development Matters Links</p> <ul style="list-style-type: none"> • Explore different materials freely • Develop fine motor skills • Use one-handed tools with increasing control • Begin to develop ideas through making 	<p>Lines of Enquiry Weather and the Natural World Life Cycles and New Life</p> <p>Learning Focus</p> <ul style="list-style-type: none"> • Exploring moving objects • Investigating wheels and movement • Building models for a purpose • Exploring food and sensory experiences <p>Skill Development</p> <ul style="list-style-type: none"> • Joining and fixing materials • Testing how things move • Exploring food textures and tastes • Beginning to explain choices <p>Development Matters Links</p> <ul style="list-style-type: none"> • Explore how things work • Combine materials with intention • Explore and talk about different forces • Develop increasing independence in play and exploration 	<p>Lines of Enquiry People and the World Around Us The Wider World and Transition</p> <p>Learning Focus</p> <ul style="list-style-type: none"> • Creating purposeful models • Exploring structures and stability • Preparing simple foods safely • Selecting materials independently <p>Skill Development</p> <ul style="list-style-type: none"> • Building and adapting models • Using tools safely with support • Testing and improving structures • Talking about designs and outcomes <p>Development Matters Links</p> <ul style="list-style-type: none"> • Create with increasing complexity and detail • Use tools competently and safely • Develop own ideas and decide which materials to use • Explain processes and creations

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Reception	<p>Lines of Enquiry Identity, Family and Place Celebrations and Belonging</p> <p>Learning Focus</p> <ul style="list-style-type: none"> • Designing and building structures • Exploring materials and joining techniques • Building stable models • Evaluating simple designs <p>Skill Development</p> <ul style="list-style-type: none"> • Planning before making • Selecting materials for purpose • Joining materials independently • Testing strength and stability <p>Development Matters / ELG Links</p> <ul style="list-style-type: none"> • Safely use and explore materials and tools • Develop small motor control • Create collaboratively • Share creations and explain the process used 	<p>Lines of Enquiry Change, Movement and the World The Past and Prehistoric World</p> <p>Learning Focus</p> <ul style="list-style-type: none"> • Exploring mechanisms and movement • Investigating wheels and axles • Building moving models • Using tools safely and accurately <p>Skill Development</p> <ul style="list-style-type: none"> • Constructing moving products • Testing and adapting designs • Using joining and fixing techniques • Beginning to evaluate effectiveness <p>Development Matters / ELG Links</p> <ul style="list-style-type: none"> • Return to and build on previous learning • Explore how things work • Develop coordination and control • Explain how creations were made 	<p>Lines of Enquiry Exploration and Growth Journeys and the Wider World</p> <p>Learning Focus</p> <ul style="list-style-type: none"> • Food preparation and healthy choices • Creating purposeful products • Refining and improving models • Evaluating finished outcomes <p>Skill Development</p> <ul style="list-style-type: none"> • Preparing food safely • Using tools with increasing accuracy • Evaluating products against purpose • Explaining design choices confidently <p>Development Matters / ELG Links</p> <ul style="list-style-type: none"> • Use a range of tools competently and safely • Represent ideas through design and making • Combine materials and techniques • Explain processes and evaluate outcomes
Year 1	<p>Learning Links</p> <ul style="list-style-type: none"> • Homes and buildings • Materials in Science • Structures in the local environment <p>Learning Focus Materials: Building Houses</p> <ul style="list-style-type: none"> • Designing products before making • Joining materials in different ways • Building strong and stable structures • Testing products and evaluating success 	<p>Learning Links</p> <ul style="list-style-type: none"> • Movement and transport • Forces and motion • Everyday objects that move <p>Learning Focus Wheels and Axles</p> <ul style="list-style-type: none"> • Understanding how wheels and axles work • Designing moving products • Testing movement and stability • Improving designs through discussion 	<p>Learning Links</p> <ul style="list-style-type: none"> • Food and healthy eating • Countries and cultures • Safety and hygiene <p>Learning Focus Food Preparation and Food Safety</p> <ul style="list-style-type: none"> • Exploring foods from different countries • Describing taste and texture • Preparing food safely • Using tools correctly

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	<p>Skill Development</p> <ul style="list-style-type: none"> • Planning and drawing simple designs • Choosing materials for a purpose • Joining materials to create structures • Testing and improving products <p>KS1 Programme of Study Links</p> <ul style="list-style-type: none"> • Design purposeful products • Build structures and explore stability • Select materials and tools appropriately • Evaluate existing products and own ideas 	<p>Skill Development</p> <ul style="list-style-type: none"> • Making simple moving products • Using wheels and axles • Testing mechanisms • Talking about design ideas <p>KS1 Programme of Study Links</p> <ul style="list-style-type: none"> • Explore mechanisms • Design and make purposeful products • Generate and communicate ideas • Evaluate products against purpose 	<p>Skill Development</p> <ul style="list-style-type: none"> • Identifying foods from around the world • Describing taste and texture • Using tools safely • Following hygiene rules <p>KS1 Programme of Study Links</p> <ul style="list-style-type: none"> • Prepare food safely and hygienically • Use tools and equipment safely • Understand where food comes from • Evaluate products and outcomes
Year 2	<p>Learning Links</p> <ul style="list-style-type: none"> • Packaging and recycling • Materials and suitability in Science • Environmental awareness <p>Learning Focus</p> <p>Packaging</p> <ul style="list-style-type: none"> • Understanding the purpose of packaging • Selecting suitable materials • Designing for a user and purpose • Evaluating and improving products <p>Skill Development</p> <ul style="list-style-type: none"> • Designing products for a purpose • Selecting appropriate materials • Using tools accurately and safely • Evaluating against design criteria <p>KS1 Programme of Study Links</p> <ul style="list-style-type: none"> • Design purposeful products for users • Select from a range of materials 	<p>Learning Links</p> <ul style="list-style-type: none"> • Sculpture in Art • Shape and form • Historical and cultural artefacts <p>Learning Focus</p> <p>Clay Sculptures</p> <ul style="list-style-type: none"> • Shaping and joining clay • Designing before making • Using scoring and slipping techniques • Improving finished products <p>Skill Development</p> <ul style="list-style-type: none"> • Designing and making clay models • Using shaping and joining techniques • Evaluating and refining products • Explaining design choices <p>KS1 Programme of Study Links</p> <ul style="list-style-type: none"> • Develop technical knowledge and practical skills • Select tools and materials appropriately 	<p>Learning Links</p> <ul style="list-style-type: none"> • Forces and movement • Mechanisms in everyday life • Construction and stability <p>Learning Focus</p> <p>Mechanisms and Pulleys</p> <ul style="list-style-type: none"> • Understanding simple mechanisms • Building pulley systems • Constructing stable supporting structures • Testing and improving products <p>Skill Development</p> <ul style="list-style-type: none"> • Designing and making pulley models • Building stable structures • Testing how mechanisms work • Improving final products independently <p>KS1 Programme of Study Links</p> <ul style="list-style-type: none"> • Explore and use mechanisms • Build stable structures • Evaluate products against design criteria

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	<ul style="list-style-type: none"> • Build structures and evaluate effectiveness • Improve products through evaluation 	<ul style="list-style-type: none"> • Build and improve structures and forms • Evaluate finished products 	<ul style="list-style-type: none"> • Apply technical knowledge in practical contexts

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