

Emerging SOW

Subject: Design technology

Key Stage: 3

Year: 7

Curriculum Intent. Design and technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Pupils learn how to take risks, becoming resourceful, innovative, enterprising and capable citizens. Through the evaluation of past and present design and technology, they develop a critical understanding of its impact on daily life and the wider world. High-quality design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of the nation.

Term	Key skills	Key knowledge	
Autumn	Bug Hut FOCUS: Construction Use tools & assemble, join & combine materials & components in a variety of ways. <ul style="list-style-type: none"> name components and materials identify a health and safety issue use tools and equipment safely 	<ul style="list-style-type: none"> Suggest what containers are used for Imitates others using tools 	Initiation
		<ul style="list-style-type: none"> Joins materials together. Describes an action 	Persistence
		<ul style="list-style-type: none"> Anticipates the effect of manipulating material 	Anticipation
		<ul style="list-style-type: none"> Handles a range of materials 	Discovery
Spring	Powered Vehicle FOCUS: Design To sequence events in a process including new technologies/machinery <ul style="list-style-type: none"> explore ways to move an object explore different movements Use new machinery 	<ul style="list-style-type: none"> Initiates the working of an electrical circuit Recognise components in an electrical circuit 	Initiation
		<ul style="list-style-type: none"> Know that some things use electricity 	Persistence
		<ul style="list-style-type: none"> Demonstrates preferences 	Anticipation
		<ul style="list-style-type: none"> Makes an object move in a different direction Shows anticipation 	Discovery
Summer	Containers FOCUS: Evaluate and make Use models, pictures and words to describe designs <ul style="list-style-type: none"> analyse different containers evaluation skills 	<ul style="list-style-type: none"> Examines parts of an object Identifies a difference 	Initiation
		<ul style="list-style-type: none"> Imitates others using a range of tools Suggests shape and colour of objects 	Persistence
		<ul style="list-style-type: none"> Deliberately makes marks with a variety of materials Anticipates movement in an object 	Anticipation
		<ul style="list-style-type: none"> Explores material by touch and manipulation 	Discovery

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Autumn	TEETH TIMERS FOCUS: Evaluate and make Develop awareness of safety procedures when using tools <ul style="list-style-type: none"> Design an object for a specific purpose. Cut wood safely Create a butt joint 	<ul style="list-style-type: none"> Discuss what they are making Describes a sequence of actions 	Initiation
		<ul style="list-style-type: none"> Draws shapes on a computer package 	Persistence
		<ul style="list-style-type: none"> Shows some care when using equipment 	Anticipation
		<ul style="list-style-type: none"> Handles a range of materials 	Discovery
Spring	Ball Maze FOCUS: Design and make Develop problem solving techniques to move an object around a board game. <ul style="list-style-type: none"> Analyse key movement of objects Evaluate effective movement of objects Problem solve a puzzle design produce a for my puzzle 	<ul style="list-style-type: none"> Select a variety of simple tools Describe a sequence of actions 	Initiation
		<ul style="list-style-type: none"> State preferences Describe an action 	Persistence
		<ul style="list-style-type: none"> Shows some care when handling objects Repeats action in order to obtain similar effect 	Anticipation
		<ul style="list-style-type: none"> Reaches out to Hold an object Explores ways of using objects 	Discovery
Summer	POP UP BOOK FOCUS: constructing mechanisms to develop 3D techniques and paper mechanisms <ul style="list-style-type: none"> recognise good and bad parts of a design Explore paper making crafts Explore mechanisms to create a pop up book. 	<ul style="list-style-type: none"> Discuss what they are going to do Identify differences in objects 	Initiation
		<ul style="list-style-type: none"> Practise a new skill Describe an object giving more than one property 	Persistence
		<ul style="list-style-type: none"> Attempts to put objects together 	Anticipation
		<ul style="list-style-type: none"> Shows awareness and purpose of a familiar object 	Discovery

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Autumn	<p>CLOCK</p> <p>FOCUS: Research and Evaluate</p> <p>Develop an understanding o the properties of different materials and ways to analyse them</p> <ul style="list-style-type: none"> Design for a purpose Explore properties of materials. evaluate my work 	<ul style="list-style-type: none"> Handles objects with care and respect Uses a range of materials such as buttons, wool, beds and feathers in a variety of ways 	Initiation
		<ul style="list-style-type: none"> Requests a tool or object for a purpose 	Persistence
		<ul style="list-style-type: none"> Selects an object for a purpose Shows an interest in materials available 	Anticipation
		<ul style="list-style-type: none"> Explores new objects with interest 	Discovery
Spring	<p>PICTURE FRAME</p> <p>FOCUS: Construction</p> <p>Develop your understanding of different construction processes and materials.</p> <ul style="list-style-type: none"> I can use measuring tools to construct a wooden object use tools to construct a wooden object recognise hard and soft woods <p>recognise different manufactured borads.</p>	<ul style="list-style-type: none"> Select a range of construction material Use a variety of simple tools 	Initiation
		<ul style="list-style-type: none"> Explores the use of different construction tools Explores different construction materials 	Persistence
		<ul style="list-style-type: none"> Shows awareness of the purpose of different tool 	Anticipation
		<ul style="list-style-type: none"> Places an object in a specific place Remembers the purpose of a tool over a short period of time 	Discovery
Summer	<p>STRUCTURES</p> <p>FOCUS: Design and make</p> <p>Develop technical knowledge of structures and construction techniques.</p> <ul style="list-style-type: none"> Identify shapes in structures that are strong Forces on structures 	<ul style="list-style-type: none"> Uses a variety of tools in order to make marks in materials 	Initiation
		<ul style="list-style-type: none"> Examines parts of familiar objects 	Persistence
		<ul style="list-style-type: none"> Can describe material(i.e. shiny, bendy, strong etc.) 	Anticipation
		<ul style="list-style-type: none"> Aware of sequence of events and techniques 	Discovery