

	Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
	HoH Design and Technology Curriculum Document	HoH Design and Technology Curriculum Document				
	Year 1 - Design and Technology	Year 1 - Design and Technology				
Focus	Structures	Structures	Mechanisms		Cooking and Nutrition	
Design a house (using the three little pigs, Make buildings and furniture for the houses)	Design and make a building that could be used to play with.	Design and make a vehicle using wheels and axles		Design and prepare a salad with sweet and savoury elements		
Knowledge						
Design Use their own personal experience to support with generating their own ideas Identify and explain what they want to create. Use pictures to plan.	Design Use their own personal experiences to support with generating their own ideas Identify and explain what they want to create. Use pictures and words to plan.	Design Use their own personal experiences to support with generating their own ideas Identify and explain what they want to create. Use pictures and words to plan.	Design Design a product for themselves following design criteria. Use their own personal experiences to support with generating their own ideas. Identify and explain what they want to create. Use pictures and words to plan.	Design Design a product for themselves following design criteria. Begin to use models to communicate a design (make a salad with objects to help identify healthy).	Design Designing a variety of fruit and vegetables (researching ingredients for salad). Design a product for themselves following design criteria. Begin to use models to communicate a design (make a salad with objects to help identify healthy).	
Application	Use overlapping joining techniques (such as tabs, L-shaped joins and slotted fitting) Know how to improve a freestanding structure to make it stronger, stiffer and more stable How to cut accurate shapes including within parts (using box saw)	Evaluate their structures including within parts (using box saw) Talk about their own ideas, saying what they like and dislike about them Evaluate the success of their product - is it strong, stiff and stable?	Understand that different mechanisms produce different types of movement: wheels and axles. Use a range of tools and equipment for cutting and joining to allow movement and finishing. Explore and evaluate a range of products with wheels and axles (research). Identify the best tools and equipment for each task (research).	Understand how to prepare themselves to work with food Use simple utensils and equipment to peel, cut, squeeze, grate and chop safely. Explore and evaluate a range of healthy and varied diet and where a range of fruit and vegetables come from to prepare dishes.	Understand how to prepare themselves to work with food Use simple utensils and equipment to peel, cut, squeeze, grate and chop safely. Explore and evaluate a range of healthy and varied diet and where a range of fruit and vegetables come from to prepare dishes.	
	HoH Design and Technology Curriculum Document	HoH Design and Technology Curriculum Document				
	Year 2 - Design and Technology	Year 2 - Design and Technology				
Focus	Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Textiles - Making a badge to raise awareness of a belief				Cooking and Nutrition	Mechanisms	
				Make a sandwich (using locally grown vegetables?)	Moving minibearts	
Knowledge						
Design Identify and explain what they want to create. Use pictures to plan.	Design Identify and explain what they want to create. Use pictures to plan.	Design Identify and explain what they want to create. Use pictures to plan.	Design Design initial ideas and design criteria through investigating a variety of fruit and vegetables. Pilot the stages of making by suggesting what to do next. Identify the purpose/audience of their intended product. Identify the best tools and materials to use, explaining choices Make	Design Use knowledge of existing products to develop their own ideas. Pilot the stages of making by suggesting what to do next. Identify the purpose/audience of their intended product. Identify the best tools and materials to use, explaining choices Make	Design Use knowledge of existing products to develop their own ideas. Pilot the stages of making by suggesting what to do next. Identify the purpose/audience of their intended product. Identify the best tools and materials to use, explaining choices Make	
Application	Know how to work with food hygienically. Understand how to prepare themselves to work with food Use simple utensils and equipment to peel, cut, squeeze, grate and chop safely. Understand, use basic principles of a healthy and varied diet and where a range of fruit and vegetables come from to prepare dishes.	Evaluate their own product, saying what they like and dislike about them. Talk about what they would do differently if they were to do it again and why. Evaluate how the product meets the design criteria.	Understand that different mechanisms produce different types of movement: levers and sliders. Assemble, join and combine materials together in different ways. Understand how to use simple sliders and levers to allow movement and finishing.	Evaluate Explore a range of shadow puppets and products that use simple sliders and levers (considering different ways of working).	Evaluate Explore a range of shadow puppets and products that use simple sliders and levers (considering different ways of working).	
	HoH Design and Technology Curriculum Document	HoH Design and Technology Curriculum Document				
	Year 3 - Design and Technology	Year 3 - Design and Technology				
Focus	Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Design and make a phone case/wallet/holder		Egyptian Shadow puppets/watering device Knowledge Organiser Example			Shadow Puppets (Textiles)	
Knowledge					Create shadow puppets to perform a show	
Design Identify and research the needs of others for a product. Generate realistic ideas through discussion and design criteria for an appealing, functional product fit for purpose. Use annotated sketches to develop, model and communicate ideas. Describe how the design meets a range of requirements.	Design Identify and research the needs of others for a product. Generate realistic ideas through discussion and design criteria for an appealing, functional product fit for purpose. Use annotated sketches to develop, model and communicate ideas. Describe how the design meets a range of requirements.	Design Understand and use lever and linkage mechanisms (how levers can be joined together to create more complex movements). Select suitable and appropriate tools, equipment, materials and components, beginning to think about their purpose.	Design Describe the purpose of the product. Describe the design of the product using an accurately labelled sketch, words or ICT. Use what they know about properties of various fabrics to make sensible design choices.	Design Understand how to securely join two pieces of fabric together (e.g. applique, reverse applique, topstitching, topstitching with contrasting colour, zig-zag stitching, overlocking).	Design Understand how to securely join two pieces of fabric together (e.g. applique, reverse applique, topstitching, topstitching with contrasting colour, zig-zag stitching, overlocking).	
Application	Evaluate what they would change to make the design better (as they are being developed). Identify what their product needs to be able to do. Evaluate existing products considering how well they have been made, materials, whether they work, how they have been made and are they fit for purpose.	Evaluate what they would change to make the design better (as they are being developed). Identify what their product needs to be able to do. Evaluate existing products considering how well they have been made, materials, whether they work, how they have been made and are they fit for purpose.	Evaluate Measure, mark out, cut and assemble components with some accuracy. Evaluate and test different types of linkages through prototyping - reverse motion, parallel, pivot motion, lever and slider motion. Think about their ideas (as they make progress) and be willing to change things to improve their work. Use design criteria to evaluate the finished product. Explain what could be changed to make a design better.	Evaluate existing products considering how well they have been made, materials, whether they work, how they have been made and are they fit for purpose. Evaluate products against the original design criteria and the purpose, making some suggestions for possible improvement.	Evaluate existing products considering how well they have been made, materials, whether they work, how they have been made and are they fit for purpose. Evaluate products against the original design criteria and the purpose, making some suggestions for possible improvement.	
	HoH Design and Technology Curriculum Document	HoH Design and Technology Curriculum Document				
	Year 4 - Design and Technology	Year 4 - Design and Technology				
Focus	Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Electrical systems (science link) Make a torch				Design and create a protein packed meal for an active (e.g. post-sport, salad, rice and bean bowl, chicken pitta).		Structures (Shell structure) Lantern
Knowledge						
Design Use research for design ideas. Generate, refine and communicate ideas through annotated sketches and exploded diagrams. Describe their own design criteria and use these to inform their ideas. Understand how to use electrical systems in their products, such as series circuits incorporating switches, bulbs and buzzers.	Design Select from a range of ingredients to make appropriate food choices in for purpose. Know about fresh and processed ingredients and seasoning in relation to food products. Explain how to be safe/hygienic. Think about how to make food interesting/ attractive ways.	Design Understand ingredients can be fresh, pre-cooked or processed. Describe eat well plate and how a healthy diet means a variety/balance of food and drinks. Know how to use utensils and equipment including heat sources to prepare and cook food e.g. hob, oven, microwave.	Design Use what they know about properties of various fabrics to make sensible design choices.	Design Understand how to securely join two pieces of fabric together (e.g. applique, reverse applique, topstitching, topstitching with contrasting colour, zig-zag stitching, overlocking).	Design Understand how to securely join two pieces of fabric together (e.g. applique, reverse applique, topstitching, topstitching with contrasting colour, zig-zag stitching, overlocking).	
Application	Evaluate existing products considering how well they have been made, materials, whether they work, how they have been made, are they fit for purpose. Evaluate their ideas and products against their own design criteria as they design and make changes as needed, following their evaluation.	Evaluate existing products considering how well they have been made, materials, whether they work, how they have been made, are they fit for purpose. Evaluate their ideas and products against their own design criteria as they design and make changes as needed, following their evaluation.	Evaluate Understand that mechanical systems have an input, process and an output. Select from and use a range of tools and equipment with some accuracy to make products. Use gears and pulleys to speed up, slow down or change the direction of movement. Evaluate Test products and critically evaluate the quality of the design, functionality and fitness for purpose. Evaluate their own and others (classmates) products, identifying strengths and areas for development.	Evaluate Understand that mechanical systems have an input, process and an output. Select from and use a range of tools and equipment with some accuracy to make products. Use gears and pulleys to speed up, slow down or change the direction of movement. Evaluate Test products and critically evaluate the quality of the design, functionality and fitness for purpose. Evaluate their own and others (classmates) products, identifying strengths and areas for development.	Evaluate Understand that mechanical systems have an input, process and an output. Select from and use a range of tools and equipment with some accuracy to make products. Use gears and pulleys to speed up, slow down or change the direction of movement. Evaluate Test products and critically evaluate the quality of the design, functionality and fitness for purpose. Evaluate their own and others (classmates) products, identifying strengths and areas for development.	
	HoH Design and Technology Curriculum Document	HoH Design and Technology Curriculum Document				
	Year 5 - Design and Technology	Year 5 - Design and Technology				
Focus	Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Mechanisms Mountain chair lift (e.g. ski lift, cable cars)				Cooking and Nutrition Curry (Senses Dish) and Naan bread	Textiles Viking Pulse	
Knowledge						
Design Develop a simple design specification to guide the development of their ideas and products. Formulate step-by-step plans and, if appropriate, allocate tasks within a team. Understand that mechanical systems have an input, process and an output.	Design Select from a range of ingredients to make appropriate food products (understand and apply principles of a healthy and varied diet). Know about food and pricing ingredients and seasoning in relation to food products and the source of different food products.	Design Produce suitable lists of tools, equipment and materials needed before making. Write a step-by-step recipe, including a list of ingredients, equipment and utensils.	Design Have a range of different ideas to solve a design problem. Understand how to use a range of different tools and equipment.	Design Understand how to securely join two pieces of fabric together (e.g. applique, reverse applique, topstitching, topstitching with contrasting colour, zig-zag stitching, overlocking).	Design Understand how to securely join two pieces of fabric together (e.g. applique, reverse applique, topstitching, topstitching with contrasting colour, zig-zag stitching, overlocking).	
Application	Evaluate Understand that mechanical systems have an input, process and an output. Select from and use a range of tools and equipment with some accuracy to make products. Use gears and pulleys to speed up, slow down or change the direction of movement. Evaluate Test products and critically evaluate the quality of the design, functionality and fitness for purpose. Evaluate their own and others (classmates) products, identifying strengths and areas for development.	Evaluate Understand that mechanical systems have an input, process and an output. Select from and use a range of tools and equipment with some accuracy to make products. Use gears and pulleys to speed up, slow down or change the direction of movement. Evaluate Test products and critically evaluate the quality of the design, functionality and fitness for purpose. Evaluate their own and others (classmates) products, identifying strengths and areas for development.	Evaluate Understand that mechanical systems have an input, process and an output. Select from and use a range of tools and equipment with some accuracy to make products. Use gears and pulleys to speed up, slow down or change the direction of movement. Evaluate Test products and critically evaluate the quality of the design, functionality and fitness for purpose. Evaluate their own and others (classmates) products, identifying strengths and areas for development.	Evaluate Understand that mechanical systems have an input, process and an output. Select from and use a range of tools and equipment with some accuracy to make products. Use gears and pulleys to speed up, slow down or change the direction of movement. Evaluate Test products and critically evaluate the quality of the design, functionality and fitness for purpose. Evaluate their own and others (classmates) products, identifying strengths and areas for development.	Evaluate Understand that mechanical systems have an input, process and an output. Select from and use a range of tools and equipment with some accuracy to make products. Use gears and pulleys to speed up, slow down or change the direction of movement. Evaluate Test products and critically evaluate the quality of the design, functionality and fitness for purpose. Evaluate their own and others (classmates) products, identifying strengths and areas for development.	
	HoH Design and Technology Curriculum Document	HoH Design and Technology Curriculum Document				
	Year 6 - Design and Technology	Year 6 - Design and Technology				
Focus						

	Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Focus	Year 6 - Design and Technology	Year 6 - Design and Technology	Year 6 - Design and Technology	Year 6 - Design and Technology	Year 6 - Design and Technology	Year 6 - Design and Technology
Knowledge	Module 1	Module 2	Module 3	Module 4	Module 5	Module 6
Design	Design	Design	Design	Design	Design	Design
Application	<p>Design</p> <p>Identify and apply design criteria for a functional, safe and sustainable wind turbine model.</p> <p>Generate and develop a range of creative design ideas using annotated sketches (and CAD).</p> <p>Plan construction stages logically (considering chosen materials and tools) and, if appropriate, discuss the use of CAD.</p> <p>Understand that mechanical systems have an input, process and an output.</p> <p>Design purposeful, functional, appealing products for the intended user that are fit for purpose.</p> <p>Test</p> <p>Identify and apply design criteria for a functional, safe and sustainable wind turbine model.</p> <p>Accurately measure and mark materials according to our design plan.</p> <p>Safely and accurately cut and shape wood components using appropriate tools.</p> <p>Select from and use a range of tools and equipment with some accuracy to make products.</p> <p>Use simple pulleys and levers to make a simple machine work.</p> <p>Assemble components systematically to ensure the mechanism works smoothly.</p> <p>Construct</p> <p>Research existing wind turbines to understand how they work and their environmental impact.</p> <p>Test products and critically evaluate the quality of the design, functionality and fitness for purpose.</p> <p>Identify the strengths and areas for improvement in our design and making process.</p> <p>Suggest modifications and justify our ideas to improve the product.</p>	<p>Design</p> <p>Identify and apply design criteria for a functional, safe and sustainable wind turbine model.</p> <p>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and structures.</p> <p>Design and build a new type of protective shelter</p>	<p>Design</p> <p>Use research and develop design criteria to inform the design of innovative, functional, appealing products for the intended user.</p> <p>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and structures.</p> <p>Identify features of design that will appeal to the intended user (functional, cost, sustainability).</p> <p>Create own design criteria and specification, giving importance to each criteria.</p> <p>Create and evaluate multiple different innovative concept designs (against design criteria).</p> <p>Use annotated sketches, cross-sectional planning, exploded diagrams and views from various angles (using CAD).</p> <p>Clearly explain how parts of design will work, and how they are fit for purpose.</p> <p>Make</p> <p>Use research and develop design criteria to inform the design of innovative, functional, appealing products for the intended user.</p> <p>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and structures.</p> <p>Identify features of design that will appeal to the intended user (functional, cost, sustainability).</p> <p>Create own design criteria and specification, giving importance to each criteria.</p> <p>Create and evaluate multiple different innovative concept designs (against design criteria).</p> <p>Use annotated sketches, cross-sectional planning, exploded diagrams and views from various angles (using CAD).</p> <p>Clearly explain how parts of design will work, and how they are fit for purpose.</p> <p>Test</p> <p>Create and follow a detailed step by step plan that competently selects and uses appropriate tools and equipment to make products.</p> <p>Use simple pulleys and levers to make a simple machine work.</p> <p>Apply their knowledge to strengthen, stiffen and reinforce their 3-D framework, where needed.</p> <p>Select and use a range of tools and equipment with some accuracy to make products.</p> <p>Use basic coding skills on the BBC Microbit.</p> <p>Use basic coding skills on the BBC Microbit to control a motor and trigger a buzzer sound.</p> <p>Evaluate</p> <p>Create a complete circuit for the microbit to connect effectively.</p> <p>Evaluate</p> <p>Evaluate products that use programmable electrical systems.</p> <p>Begin to research different applications of programming.</p> <p>Continually evaluate and modify the working features of the product to match the initial design specification.</p>	<p>Design</p> <p>Use research and develop design criteria to inform the design of innovative, functional, appealing products for the intended user.</p> <p>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and structures.</p> <p>Identify features of design that will appeal to the intended user (functional, cost, sustainability).</p> <p>Create own design criteria and specification, giving importance to each criteria.</p> <p>Create and evaluate multiple different innovative concept designs (against design criteria).</p> <p>Use annotated sketches, cross-sectional planning, exploded diagrams and views from various angles (using CAD).</p> <p>Clearly explain how parts of design will work, and how they are fit for purpose.</p> <p>Make</p> <p>Use research and develop design criteria to inform the design of innovative, functional, appealing products for the intended user.</p> <p>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and structures.</p> <p>Identify features of design that will appeal to the intended user (functional, cost, sustainability).</p> <p>Create own design criteria and specification, giving importance to each criteria.</p> <p>Create and evaluate multiple different innovative concept designs (against design criteria).</p> <p>Use annotated sketches, cross-sectional planning, exploded diagrams and views from various angles (using CAD).</p> <p>Clearly explain how parts of design will work, and how they are fit for purpose.</p> <p>Test</p> <p>Create and modify a computer control program to enable their electrical product to respond to different inputs.</p> <p>Use basic coding skills on the BBC Microbit.</p> <p>Use basic coding skills on the BBC Microbit to control a motor and trigger a buzzer sound.</p> <p>Evaluate</p> <p>Create a complete circuit for the microbit to connect effectively.</p> <p>Evaluate</p> <p>Evaluate products that use programmable electrical systems.</p> <p>Begin to research different applications of programming.</p> <p>Continually evaluate and modify the working features of the product to match the initial design specification.</p>		