



Intent: DT offers inspiring opportunities for students to develop imagination, creativity and problem solving skills in practical ways, whilst producing products for themselves and others. Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts. Pupils should be taught how to cook and apply the principles of nutrition and healthy eating. DT should foster in pupils a love of cooking and the life skills to enable students to make choices to feed themselves affordably and well in later life.

Intent Technical	Design Design purposeful, functional, appealing products for themselves and other users based on design criteria. Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology				
Knowledge	Skills Progression / Impact	Make select from and use a range of tools and ec	uipment to perform practical tasks [for	stage of their STEM pathway and are	
Build structures, exploring how	Pathway 1 (Engagement Step 1 – 3) Opens eyes for brief period of time when encountering stimulating events	example, cutting, shaping, joining and finishing]. Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics		ready to:	
they can be	textural experiences Reaches for visually appealing objects	Skills Progression / Impact	Evaluate explore and evaluate a range of existing	Use research and develop design	
stiffer and	Explores a desired object for up to 10 seconds	Reacts to physical contact/textures with minor physiological changes	Products Evaluate their ideas and products against design criteria	criteria, aimed at	
more stable Explore and	Pathway 2 (Progression Step 1 – 3)	Grasps objects intentionally when they have been placed in their hands	Skills Progression / Impact	individuals or	
use mochanisms in	Requests a tool or object for a purpose	Transfers from one hand to the other	Responds to pleasant smells/tastes with sucking motions	groups.	
their products.	make, working in 2d and 3d Makes simple drawings to	Moves an object in a variety of different ways Builds with a range of construction	Reacts excitedly to an activity when offered a variety of tactile experiences		
Use the basic principles of a	communicate their ideas	materials used in a variety of ways Follows a simple pictorial plan to recreate	States what they notice in simple terms and can say what they like/don't like	Select from and use a	
healthy and varied diet to	Pathway 3 (Progression Step 4 – 5) Chooses tools and materials generally		Explains what their product does and who it's for Identifies simple processes to improve their design	and equipment to perform practical	
prepare dishes understand where food comes from	appropriate to the task Writes captions and labels on their design drawings Creates simple plans for their designs	Total a product of structure using simple tools and construction materials Demonstrate safe use of tools Combines construction materials while considering the final appearance of the product	Suggests a way to improve their product Compares their completed product to the original design Suggests some ways they could improve a specific part of the product/design	select from and use a wider range of materials, including construction materials, textiles and ingredients.	
Half term • Boats Half term • Moving tures/to	1: Half term 1: Half 2: Picnics Half term 2: pic- Kites Half ys G b	f term 1: Green houses f term 2: Great bread ake off	 Half term 1: Battery operated lights Half term 2: Edible gardens 	Investigate and analyse a range of existing products evaluate their ideas and products against their own design. Understand how key events and individuals in design and technology have helped shape the world.	





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Intent Tec Knov

Design

Apply the understar to streng and reinf complex s Understar mechanic their prod Understar electrical their prod Apply the understar computing monitor a their prod Understa the princi healthy a Prepare a variety of predomin dishes usi cooking te Understar seasonali where and variety of are grown caught an

Implementation

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Year

Design and make

models of

artefacts.

Accepts hands being guided over textural experiences Skills Progression / Impact Evaluate Reaches for visually appealing objects Explores a desired object for up to 10 seconds Reacts to physical contact/textures with minor physiological changes Investigate and analyse a range of existing products evalu- ate their ideas and products against their own design criteria and consider the views of others to improve their work. Understand how key events and individuals in design and technology have helped shape the world Pathway 2 (Progression Step 1 - 4) Reacts for a purpose Skills Progression / Impact
Reaches for visually appealing objects Explores a desired object for up to 10 seconds Pathway 2 (Progression Step 1 - 4) Pathway 2 (Progression Step 1 - 4) Reacts to physical contact/textures with minor physiological changes Grasps objects intentionally when they have been placed in their hands Skills Progression / Impact
Pathway 2 (Progression Step 1 – 4) have been placed in their hands Skills Progression / Impact
Communicates what they want to make, I ransfers from one hand to the other Responds to pleasant smells/tastes with sucking
working in 2d and 3d motions Makes simple drawings to communicate their ideas Moves an object in a variety of different ways Builds with a range of construction materials used in a variety of ways motions Chooses tools and materials generally commencies to the track. motions Turns head to follow stimulating experiences variety of tactile experiences
Pathway 3 (Progression Step 5 - 7) Writes captions and labels on their design
drawings Creates simple plans for their designs Designs or makes a product using Designs or makes a product using
knowledge from previous workMeasures components in their design productSuggests some ways they could improve a specific part of the product/designTakes into account some of the design criteriaWeasures components in their design product with some care Chooses materials to fit the aesthetic quality of their designSuggests some ways they could improve a specific part of the product/designGathers information about the needs or wants of a particular group or individual to aid their designMeasures components in their design product the aesthetic quality of their designSuggests some ways they could improve a specific part of the product/designKesendles or joins parts of their product aid their designResearches some of the great designers in different areas of study

Explore and use a range of materials.

a garden.

worlds.

- of designs. Ð >
- Use a variety of materials.
- Design, Create, taste and evaluate a salad.

Explore recyclable materials.

Impact

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and explotify and er needs olve their oblems.

ommunieas using tches, 3-D and modelling, presen-

nd use s, techsses, aid mannd use a complex erials, and ingreinto acoperties.

ork of ent proothers to roaden inding. ew and emerging technologies. Test, evaluate and refine their ideas taking into account the views of intended users and other interested groups.





Intent: DT offers inspiring opportunities for students to develop imagination, creativity and problem solving skills in practical ways, whilst producing products for themselves and others. Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of domestic and local contexts and industrial contexts. Learning how to cook is a crucial life skill that enables pupils to feed themselves and others affordably and well, now and in later life.

Intent	Design Use research and exploration, to identify an	d understand user needs		Impact
Recunical Knowledge Understand and use the properties of materials to achieve functioning solutions Understand how mechanical systems used in their products enable changes in movement and force Understand how electrical and electronic systems can be powered and used in their products. Apply computing and use electronics to embed intelligence in products that respond to inputs and control outputs using programmable components Understand and apply the principles of nutrition and health Cook a repertoire of predominantly savoury dishes so that they are able to feed themselves and others a healthy and varied diet Become competent in a range of cooking techniques	Identify and solve their own design problem products meet a need. Use a variety of app Develop and communicate design ideas usin	Students are pre- pared for the next		
	Skills Progression / ImpactPathway 1 (Engagement Step 1 - 3)Opens eyes for brief period of time when encountering stimulating eventsAccepts hands being guided over textural experiencesReaches for visually appealing objects Explores a desired object for up to 10 secondsPathway 2 (Progression Step 1 - 4) Requests a tool or object for a purpose Communicates what they want to make, working in 2d and 3d Makes simple drawings to communicate their ideas Chooses tools and materials generally appropriate to the task	Make Select from and use specialist tools, techniques, processes, equipment and machinery precisely, including computer-aided manufacture. Select from and use a wider, more complex range of materials, components and		pathway and are ready to:
		Skills Progression / Impact	Evaluate	Understand develop-
		Reacts to physical contact/textures with minor physiological changes	Analyse the work of past and present professionals and others to develop and broaden their understanding. Investigate new and emerging technologies. Test, evaluate and refine their ideas and products against a specification, taking into account the views of intended users and other interested groups.	technology, its impact on individuals, society
		Grasps objects intentionally when they have been placed in their hands	Skills Progression / Impact	and the environment, and the responsibilities of designers, engineers
		Moves an object in a variety of different ways Builds with a range of construction materials used in a variety of ways	Responds to pleasant smells/tastes with sucking motions Turns head to follow stimulating experiences Reacts excitedly to an activity when offered a variety of tactile experiences	and technologists. To be inspired to pursue design interests further.
		Follows a simple pictorial plan to recreate a model Makes a product or structure using simple tools and construction materials	States what they notice in simple terms and can say what they like/don't like Compares their completed product to the original design	
	Pathway 3/4 (Progression Step 5–10) Writes captions and labels on their design drawings Creates simple plans for their designs Designs or makes a product using knowledge from previous work Takes into account some of the design criteria Gathers information about the needs or wants of a particular group or individual to aid their design Creates realistic designs which are suitable for the task Annotates all designs with the materials and sizes, and refers to the processes that will be used Uses research and exploration, such as the study of different cultures, to identify and understand user needs	Demonstrate safe use of tools Combines construction materials while considering the final appearance of the product Measures components in their design product with some care Chooses materials to fit the aesthetic quality of their design Assembles or joins parts of their product successfully Decides on the correct tools and processes to match the chosen material Uses a range of tools, equipment, materials and components with precision, to consistently produce a well finished product Selects from and use a wider, more complex range of materials, components and ingredients, taking into account their properties	Explains what their product does and who it's for Identifies simple processes to improve their design Suggests a way to improve their product	Instilling a love of cook-
			Suggests some ways they could improve a specific part of the product/design Explains simply why the properties of a material make is suitable or unsuitable for a purpose Researches some of the great designers in different areas of study Comments on the effectiveness of their product when evaluating their ideas and products Evaluates their work regularly throughout the design and making process Analyses the work of past and present professionals and others to develop and broaden their understanding	ing in pupils will also open a door to one of t great expressions of human creativity. To have developed ned essary skills to enable them to pursue their lo of design and cooking during the next stage their educational journ
Design and creat Cookery aprons, Xmas fayre prod Focus: Become proficient in exp their ideas and creative work. Cooking and nut	tte: , also ducts bloring trition: Cooking and nutrition: Focus: competence in cooking techniques Sculpture: Use a wider range of tools and techniques to develop understanding Mazey Desig costur resear exploi users Cooking Focus cooking techniques to develop	A art/ ARTS week. n and make a me/ outfit. Use rch and ration to identify needs. ng and nutrition: : competence in g techniques Christmas crafts: children to decide on products: Product research, design and make	Cooking and nutrition: Focus: Cook a repertoire of savoury dishes . 2D and 3D designs including digital art Focus: Takes into account the design criteria	To begin to understand that developments in design and technology, can impact on individu- als and society and to be inspired by this to contribute to the design process during the next stage of their education.