

Curriculum Subject Outline - Design and Technology

2016-2017

Technology Team Leader: Paul McCool

	Aut I	Aut II	Spring I	Spring II	Summer I	Summer II
Year 1	Paws, Claws and Whiskers	Superheroes	Bright lights Big City	Rio de Vida	Memory Box	Dinosaur planet
	design purposeful, functional, appealing products for themselves and other users based on design criteria	use the basic principles of a healthy and varied diet to prepare dishes explore and evaluate a range of existing products	explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. build structures, exploring how they can be made stronger, stiffer and more stable understand where food comes from. design purposeful, functional, appealing products for themselves and other users based on design criteria select from and use a wide range of	design purposeful, functional, appealing products for themselves and other users based on design criteria select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics evaluate their ideas and products against design criteria	use the basic principles of a healthy and varied diet to prepare dishes select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics	select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics

Year 2	Muck, Mess and Mixtures	Beat Band Boogie	materials and components, including construction materials, textiles and ingredients, according to their characteristics Beachcombers	Towers, Tunnels and Turrets	Land Ahoy!	Bounce
	explore and evaluate a range of existing products understand where food comes from. use the basic principles of a healthy and varied diet to prepare dishes select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their	select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics evaluate their ideas and products against design	select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]	select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] build structures, exploring how they can be made stronger, stiffer and more stable evaluate their ideas and products against design criteria	explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] build structures, exploring how they can be made stronger, stiffer and more stable evaluate their ideas and products	explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics

characteristics		against design	
generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology		criteria	
select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]			

Year 3	Scrumdiddlyumpti ous	Tribal Tales	Heroes and Villains	Tremors	Predator	Mighty Metals
	investigate and analyse a range of existing products prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed	use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities evaluate their ideas and products against their own design	select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities	use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities apply their understanding of how to strengthen, stiffen and	select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities	investigate and analyse a range of existing products use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities select from and use
	purpose, aimed	own design		reinforce more		Select Irom and use

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	consider the views of others to improve their work generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computeraided design	complex structures	a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups evaluate their ideas and products against their own design criteria and consider the views of others to improve their work

			and Bile	Raiders	Sierra
select from and a wider range tools and equipment to perform prace tasks [for example, cutting, shap joining and finishing], accurately select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their function properties ar aesthetic qualities evaluate their ide and products against their own design criteria and consider the views of other	develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques understand how key events and individuals in design and technology have helped shape the world	prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques generate, develop, model and communicate their ideas through discussion, annotated sketches, cross- sectional and exploded diagrams, prototypes, pattern pieces and computer- aided design use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or	prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately use research and develop design	use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities select from and use a wider range of tools and equipment to perform	evaluate their ideas and products against their own design criteria and consider the views of others to improve their work

work	groups	the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups	[for example, cutting, shaping, joining and finishing], accurately	
		prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques		

Year 5	Peasants Princes and Pestilence	Alchemy Island	Beast Creator	Star Gazers	Allotment	Pharaohs
	select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques	understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups	select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities evaluate their ideas and products against their own design criteria and consider the views of others to improve their work	select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups evaluate their ideas and products against their own design criteria and consider the views of others to improve their	prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology apply their	select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed. use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups

				work	understanding of how to strengthen, stiffen and reinforce more complex structures	
Year 6	Darwin's Delights,	Revolution	Frozen Kingdom	A Child's War	Gallery Rebels	ID
	select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology		select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately	prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques apply their understanding of how to strengthen, stiffen and reinforce more complex structures select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic	select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities understand and use electrical systems in their	select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups

incorporating switches, bulbs, buzzers and motors]
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