

## **Brede Primary School**

**DESIGN AND TECHNOLOGY CURRICULUM** 

## **Intent Statement:**

Design and technology is an inspiring, rigorous and practical subject. Our intent is to ensure all pupils foster a sense of creativity and imagination as they 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 will acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Through careful planning and collaboration between subject leads we will ensure out DT curriculum in embedded into our topics to deepen understanding and facilitate meaningful learning experiences. Through practical and enquiry-based learning, pupils will 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. Additionally, we have collated a wide range of diverse and inspirational individuals that have had a significant impact within this subject to encourage our learners to pursue further education or careers in design, engineering, or related fields. Our curriculum is designed to be inclusive, providing engaging and challenging experiences for all learners.

Outlined in this document are the **key concepts (Developing Ideas to Master techniques, Acquiring Knowledge and Measuring Impact)** that pupils will explore throughout each topic. Organised into different sub-categories Design), Make and Evaluate, we have considered a variety of skills and key knowledge that will support children to develop their conceptual understanding and are necessary master this subject. These be taught progressively across every art topic in every year group and revisited regularly to ensure pupils have both the skills and knowledge required.

Additionally, included in this document is a timeline of significant individuals that may be drawn upon throughout our curriculum to ensure we reflect the rich and diverse world around us.

## **National Curriculum Aims:**

The national curriculum for design and technology aims to ensure that all pupils:

- Develop the creative, technical and practical expertise needed to perform everyday
- Tasks confidently and to participate successfully in an increasingly technological world
- Build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users
- Critique, evaluate and test their ideas and products and the work of others
- Understand and apply the principles of nutrition and learn how to cook.

Age Related Statutory Coverage:					
EYFS	Key Stage One Learning	Key Stage Two			
ELG: Speaking	Through a variety of creative and practical	Through a variety of creative and practical activities, pupils should be			
Children at the expected level of	activities, pupils should be taught the knowledge,	taught the			
development will:	understanding and skills needed to engage in an				

• Participate in small group,	iterative process of designing and making working	knowledge, understanding and skills needed to engage in an iterative
class and one-to-one	in a range of relevant contexts:	process of designing
discussions, offering their	Pupils should be taught to:	and making working in a range of relevant contexts:
own ideas, using recently	Design	Pupils should be taught to:
<ul> <li>introduced vocabulary.</li> <li>Offer explanations for why things might happen, making use of recently introduced vocabulary from stories, non-fiction, rhymes and poems when appropriate.</li> </ul>	<ul> <li>Design purposeful, functional, appealing products for themselves and other users based on design criteria</li> <li>Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology</li> </ul>	<ul> <li>Design</li> <li>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</li> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</li> </ul>
		Make
<ul> <li>ELG: Creating with Materials</li> <li>Children at the expected level of development will:</li> <li>Safely use and explore a variety of materials, tools and techniques,</li> </ul>	<ul> <li>Select from and use a range of tools and equipment to perform practical</li> <li>Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics</li> </ul>	<ul> <li>Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</li> <li>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</li> </ul>
<ul> <li>experimenting with</li> </ul>	Evaluate	Evaluate
<ul> <li>colour, design, texture, form and function.</li> <li>Share their creations, explaining the process they have used.</li> </ul>	<ul> <li>Explore and evaluate a range of existing products</li> <li>Evaluate their ideas and products against design criteria</li> <li>Technical knowledge</li> </ul>	<ul> <li>Investigate and analyse a range of existing products</li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> <li>Understand how key events and individuals in design and technology have helped shape the world</li> </ul>
	<ul> <li>Build structures, exploring how they can be made stronger, stiffer and more stable</li> <li>Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.</li> <li>As part of their work with food, pupils should be taught how to cook and apply the principles of nutrition and healthy eating. Instilling a love of cooking in pupils will also open a door to one of</li> </ul>	<ul> <li>Technical knowledge</li> <li>Apply their understanding of how to strengthen, stiffen and reinforce more complex structures</li> <li>Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]</li> <li>Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]</li> <li>Apply their understanding of computing to program, monitor and control their products.</li> </ul>

the great expressions of human creativity. 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: Pupils should be taught to:	As part of their work with food, pupils should be taught how to cook and apply the principles of nutrition and healthy eating. Instilling a love of cooking in pupils will also open a door to one of the great expressions of human creativity. 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:	
Cooking & Nutrition	Pupils should be taught to:	
<ul> <li>Use the basic principles of a healthy and varied diet to prepare dishes</li> <li>Understand where food comes from</li> </ul>	<ul> <li>Understand and apply the principles of a healthy and varied diet</li> <li>Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques</li> <li>Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.</li> </ul>	

Design and Technology Key Concepts and Skills					
	EYFS				
Developing Id	eas to Master techr	niques	Acquiring Knowledge	Measuring Impact	
Using creativity and im	agination, pupils de	sign and make	Acquire a broad range of age appropriate subject	Understanding the impact of a product on daily life	
	products.		knowledge.	and the wider world.	
		Partici	pate in small group, class and one-to-one discussions exp	loring new products.	
Desig	n	Comm	inicate my ideas in a range of different ways e.g. talking and drawing.		
Desig	1	Consid	ler what a product would be used for and why.		
	Cooking &	• Know	the importance for good health of physical exercise and a	healthy diet.	
	Nutrition	<ul> <li>Under</li> </ul>	stand that some foods need to be cooked and some do ne	ot.	
		Handle	e equipment including knives effectively.		
		Name	a variety of equipment used in a kitchen.		
		Complete tasks with modelled techniques and follow a simple method to begin to make a product.			
Make using technical	Materials	Name different materials e.g. glue, tape.			
Knowledge		To list	skills used in DT e.g. gluing, cutting.		
Kilowicuge		Handle	e equipment including scissors effectively.		
		Explor	e different materials and discuss their properties.		

	Textiles	• Explore a range of fabrics so pupils can explore and experience different textures with their hands.
		Use scissors to cut and trim fabric, yarn and string.
		<ul> <li>Spread glue and stick fabric, yarn and wool on to a chosen surface.</li> </ul>
		• Use fabric creatively with other resources, such as paint or wax crayons.
		Use textiles creatively in various activities.
		<ul> <li>See what happens when different types of fabric get wet.</li> </ul>
	Electricals and	Know some items need a battery for power.
	electronics	
	Construction	Use glue and sticky tape.
		Construct with a purpose in mind.
	Mechanics	List types of transport.
Evalua	te	To say what I like and would improve about my work.

Design and Technology Key Concepts and Skills				
			KS1	
Developing Ide	eas to Master techr	niques	Acquiring Knowledge	Measuring Impact
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.Acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art.Through the evaluation of past and present de and technology, they develop a critical understanding of its impact on daily life and wider world.				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.
Design     Design     approp		<ul> <li>Design</li> <li>Gener</li> <li>approp</li> </ul>	purposeful, functional, appealing products based on a de ate, develop, model and communicate ideas through talk priate using technology.	esign criteria. ing, drawing, templates or mock-ups, where
	Cooking & Nutrition	<ul> <li>To assemble ingredients.</li> <li>Use a knife to cut, peel, grate.</li> <li>To weigh amounts using cups and scales (using grams).</li> <li>Understand that food has to be farmed, grown or caught.</li> <li>Name different food groups.</li> <li>Understand the importance of five portions of fruit and veg.</li> <li>Prepare simple dishes without a heat source.</li> </ul>		

Make using technical	Materials	To cut materials safely.
Knowledge		<ul> <li>Demonstrate gluing and combining materials to strengthen.</li> </ul>
		Measure and mark to nearest centimetre.
		Demonstrate tearing, folding & curling.
		Glue using hinges.
	Textiles	<ul> <li>Use weaving to create a pattern.</li> </ul>
		• Learn to plait.
		• Use dip dye.
		<ul> <li>Join material using glue or stitching.</li> </ul>
		Use a template to shape.
		Join material using running stitch.
		• To decorate e.g. add sequins.
Electricals and		Understand batteries run low and can be damaged.
	electronics	• Generate, develop, model and communicate their ideas through computer-aided design.
	Construction	<ul> <li>Use materials to practise drilling, screwing, gluing and nailing to make and strengthen products.</li> </ul>
	Mechanics	Learn about levers, wheels and winding mechanisms.
	1	Evaluate work against design criteria.
Evalua	te	Identify strengths and possible changes.

Design and Technology Key Concepts and Skills					
	Lower KS2				
Developing Ideas to Master techniques         Acquiring Knowledge         Measuring Impact					
Using creativity and imagination, pupils design and make	Acquire a broad range of subject knowledge and draw	Through the evaluation of past and present design			
products that solve real and relevant problems within a	on disciplines such as mathematics, science,	and technology, they develop a critical			
variety of contexts considering their own and others'	engineering, computing and art.	understanding of its impact on daily life and the			
needs, wants and values.		wider world.			
needs, wants and values.		wider world.			

Design		<ul> <li>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.</li> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams and prototypes.</li> </ul>
	Cooking & Nutrition	<ul> <li>To follow a recipe.</li> <li>Assemble and cook using predominantly savoury ingredients controlling oven temperature.</li> <li>Know that food is grown, reared and caught.</li> <li>Know about a healthy diet.</li> <li>Know that to be active and healthy, food and drink is required.</li> <li>Use chopping, slicing, grating, mixing, spreading, kneading and baking.</li> </ul>
Make using technical Knowledge	Materials	<ul> <li>Measure and mark to nearest millimetre.</li> <li>Cut and shape using slots.</li> <li>Select appropriate joining techniques e.g. gluing, hinges or combining materials to strengthen.</li> </ul>
	Textiles	<ul> <li>Join textiles with stitching. Understand the need for a seam allowance</li> <li>Create weavings</li> <li>Dye fabric</li> <li>Use cross stitch and back stitch.</li> </ul>
	Electricals and electronics	Create electrical circuits series and parallel.
	Construction	<ul> <li>Choose suitable techniques from drilling, screwing, gluing and nailing to strengthen materials and construct products.</li> <li>Learn about inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products.</li> </ul>
	Mechanics	<ul> <li>Use scientific knowledge of the transference of forces to choose appropriate mechanisms for a product e.g. levers, winding mechanisms, pulleys and gears.</li> </ul>
Evaluate		<ul> <li>Evaluate work against design criteria.</li> <li>Identify strengths and possible changes.</li> <li>Evaluate the key designs of individuals in design and technology that have shaped the world.</li> </ul>

Design and Technology Key Concepts and Skills							
Upper KS2							
Developing Ideas to Master techniques			Acquiring Knowledge	Measuring Impact			
Using creativity and ime	agination, pupils de	sign and make	Acquire a broad range of subject knowledge and draw	Through the evaluation of past and present design			
variety of contexts co	and relevant prop Insidering their own	and others'	engineering computing and art	understanding of its impact on daily life and the			
needs,	wants and values.			wider world.			
		Use re	search and develop design criteria to inform the design o	f innovative, functional, appealing products that are			
Desigr	ı	fit for	purpose, aimed at particular individuals or groups.				
		Gener     evolor	ate, develop, model and communicate their ideas through and diagrams, prototypes, pattern pieces and computer-a	h discussion, annotated sketches, cross-sectional and idea design			
		explot	ieu diagrams, prototypes, pattern pieces and computer-a				
	Cooking &	Demo	nstrate a range of baking and cooking techniques.				
	NUTRITION	Under     Domo	<ul> <li>Understand importance of correct storage using knowledge of micro-organisms.</li> </ul>				
		<ul> <li>Denio</li> <li>Use ch</li> </ul>	<ul> <li>Demonstrate a range of baking and cooking techniques.</li> <li>Use chopping slicing grating mixing spreading kneading and baking</li> </ul>				
		<ul> <li>Understand the importance of nutrients, water and fibre.</li> </ul>					
		Measure accurately and calculate ratios of ingredients.					
Make using technical		Create and refine recipes.					
Knowledge	Materials	Cut with precision using appropriate tools for material.					
		Refine	finish by sanding or more precise scissor cutting.				
	Textiles	Create pieces choosing from previously learned sewing techniques.					
		<ul> <li>Quilt p</li> </ul>	oad & gather materials.				
		Includ	ing seam allowance				
		• Select	material to create visual and tactile effects including deco	Drations			
	Electricals and	Create	circuits using kits that use a number of components e.g.	LED resistors, transistors and chips.			
	electronics	Apply	their understanding of computing to program, monitor ar	nd control their products.			
	Construction	Develop a rang	ge of practical skills to create products using:				

		<ul> <li>Cutting</li> <li>Drilling</li> <li>Screwing</li> <li>Nailing</li> <li>Gluing</li> <li>Filing</li> <li>Sanding</li> </ul>
	Mechanics	<ul> <li>Convert rotary motion to linear using cams.</li> <li>Use combinations of electronics and mechanics in product design.</li> </ul>
Evalua	te	<ul> <li>Evaluate work against design criteria.</li> <li>Evaluate the key designs of individuals in design and technology that have shaped the world.</li> </ul>

Key vocabulary:						
EYFS KS1		LKS2		UKS2		
EYFS Cooking & Nutrition: Fruit Vegetables Safety Knife Blade Tool Edge Handle Chop Slice Cut Saucepan Blender Chopping board Hob Boil Blend Mix Packaging Recyclable Metal	KS1Cooking & Nutrition:•Appearance•Balanced•Carbohydrates•Combination•Dairy•Design•Design brief•Diet•Feel•Grate•Grater•Menu•Oils•Prepare•Proteins•Review•Scissors•Smell•Spread•Evaluation	LKS2 Cooking & Nutrition: Adapt Addition Budget Buttery Combine Comment Construct Cream Crunchy Cuboid Fold Hygiene Layout Market research Modify Multiplication Opinion Pounds Sieve	Construction: Aesthetic Cladding Design criteria Evaluation Frame structure Function Inspiration Reinforce Stable Structure Target audience Target customer Texture Theme Textiles: Aesthetic Assemble Design criteria	UKS2 Cooking & Nutrition: Balance Bitter Complement Cookbook Farm to fork Method Nationality Reared Research Pairing Preparation Salty Sour Sweet Materials: precision tools Refine finish sanding scissor cutting	Construction: Mark out Measure Model Research Right-angle Set square Sketch Strong Structure Tenon saw Natural materials Plan view Mechanics: Accurate Assembly-diagram Axle Bench hook Cam Clamp Component	
<ul> <li>Plastic</li> <li>Reusable</li> </ul> Materials: <ul> <li>Join</li> <li>Stick</li> <li>Cut</li> </ul>	Materials: • Stable • Stiff • Strong • Structure • Test	<ul> <li>Sift</li> <li>Target audience</li> <li>Texture</li> <li>Unique</li> <li>Wooden</li> <li>spoon</li> </ul>	<ul> <li>Evaluation</li> <li>Fabric</li> <li>Fastening</li> <li>Mock-up</li> <li>Net</li> <li>Running-stitch</li> <li>Stencil</li> </ul>	Textiles: Accurate Adapt Annotate Design Design criteria	<ul> <li>Cutting list</li> <li>Diagram</li> <li>Exploded-diagram</li> <li>Finish</li> <li>Function</li> </ul>	
<ul> <li>Bend</li> <li>Slot</li> <li>Scissors</li> <li>Measure</li> <li>Materials</li> <li>Fix</li> </ul> Textiles:	<ul> <li>Weak</li> <li>Waterproof</li> </ul> Textiles: <ul> <li>Accurate</li> <li>Fabric</li> <li>Knot</li> <li>Pouch</li> </ul>	Materials: Measure Mark Nearest Millimetres Cut Shape Slots.	<ul> <li>Target audience</li> <li>Target customer</li> <li>Template</li> </ul> Electricals and electronics: <ul> <li>Battery</li> </ul>	<ul> <li>Detail</li> <li>Fabric</li> <li>Fastening</li> <li>Knot</li> <li>Properties</li> <li>Running-stitch</li> <li>Seam</li> <li>Sew</li> </ul>	Electricals and electronics: <ul> <li>Assemble</li> <li>Battery</li> <li>Battery pack</li> <li>Bulb</li> <li>Bulb holder</li> <li>Buzzer</li> <li>Circuit</li> <li>Circuit symbol</li> </ul>	

<ul> <li>Thread</li> <li>Weave</li> <li>Pattern</li> <li>Sew</li> <li>Sewing needle</li> <li>Design</li> <li>Evaluate</li> </ul> Electricals and electronics: <ul> <li>Batteries</li> <li>Power</li> <li>Damaged</li> </ul> Construction: <ul> <li>Waterproof</li> <li>Absorb</li> <li>Prediction</li> <li>Variable</li> <li>Experiment</li> <li>Investigation</li> <li>Float</li> <li>Sink</li> <li>Junk</li> </ul> Mechanics: <ul> <li>Transport</li> <li>Cars</li> <li>Busses</li> <li>Wheels</li> </ul>	<ul> <li>Running-stitch</li> <li>Sew</li> <li>Shape</li> <li>Stencil</li> <li>Template</li> <li>Thimble</li> </ul> Construction: <ul> <li>Function</li> <li>Man-made</li> <li>Decorate</li> <li>Evaluation</li> <li>Stable</li> <li>Strong</li> <li>Test</li> <li>Weak</li> </ul> Mechanics: <ul> <li>Axle</li> <li>Mechanism</li> <li>Lever</li> <li>Mechanical</li> <li>Motion</li> <li>Pivot</li> <li>Rotary motion</li> </ul> Electricals and electronics: <ul> <li>Batteries</li> <li>Power</li> <li>Low</li> </ul>	<ul> <li>Joining techniques Gluing</li> <li>Hinges</li> <li>Combining materials</li> <li>Mechanics:         <ul> <li>Axle</li> <li>Ferris wheel</li> <li>Mechanism</li> <li>Lever</li> <li>Linear motion</li> <li>Linkage</li> <li>Mechanical</li> <li>Motion</li> <li>Oscillating motion</li> <li>Output</li> <li>Pivot</li> <li>Reciprocating motion</li> <li>Survey</li> </ul> </li> </ul>	<ul> <li>Bulb</li> <li>Buzzer</li> <li>Cell</li> <li>Component Conductor</li> <li>Copper</li> <li>Design criteria</li> <li>Electrical item</li> <li>Electronic item</li> <li>Function</li> <li>Insulator</li> <li>Series circuit</li> <li>Switch</li> <li>Test</li> <li>Torch</li> <li>Wire</li> </ul>	<ul> <li>Shape</li> <li>Target audience</li> <li>Target customer</li> <li>Template</li> <li>Thread</li> <li>Unique</li> </ul>	<ul> <li>Component</li> <li>Conductor</li> <li>Copper</li> <li>Electrical item</li> <li>Electronic item</li> <li>Function</li> <li>Insulator</li> <li>LED</li> <li>Test</li> <li>Torch</li> <li>User</li> <li>Wire</li> </ul>
	<ul> <li>Damaged</li> </ul>				

Significant Individuals						
Significant inventors and inventions pre 1600's	Significant inventors and inventions 1600's/ 1700's/ 1800's	Significant inventors and inventions 1900's- Now	Significant engineers	Significant Designers	Famous Chefs/ Bakers	
1600's 849–899 BCE: Anglo- Saxon times: type of candle clock invented by Alfred the Great. 400 BCE: The Greek Dionysius the Elder of Syracuse, who was looking to develop a new type of weapon, invented the catapult. 1475: First book printed in the English language, Recuyell of the Historyes of Troye, by William Caxton (c. 1422–c. 1491); eighteen copies survive.	<ul> <li>1800's</li> <li>1781: The Iron Bridge, the first metal bridge, cast and built by Abraham Darby III (1750–1789).</li> <li>1790: Sewing machine invented by Thomas Saint.</li> <li>1825: Opening of the Stockton and Darlington Railway, the world's first operational steam passenger railway; it was taken over by the North Eastern Railway in 1863.</li> <li>1862: The invention of Plastic by Alexander Parkes (1813-1890)[58]</li> <li>1892: Improved Ironing Board, Invented by Sarah Boone.</li> <li>1887: Automatic Elevator Doors, Invented by Alexander Miles.</li> </ul>	<ul> <li>1902: Mary Anderson invented windscreen wipers.</li> <li>1903: The Wright Brothers invented the airplane having made the first successful human flight.</li> <li>1923: The Three-Light Traffic Signal, Invented by Garrett Morgan.</li> <li>1940: Refrigerated Trucks, Invented by Frederick McKinley Jones.</li> <li>1964: Electret Microphone, Co- Invented by James E. West.</li> <li>1965: Stephanie Kwolek was an American-Polish chemist who worked with synthetic (humanly- constructed) fibres. She invented Kevlar, an incredibly light but very strong material.</li> </ul>	Walter Braithwaite, born in Jamaica, revolutionized engineering at Boeing by developing computer-aided design/computer-aided manufacturing (CAD/CAM) systems. Aerospace engineer Dr. Aprille Ericsson. Dr. Wanda Austin, instrumental not only in shaping the U.S. aerospace industry, but also in ensuring national security within the space community. Isambard Kingdom Brunel He assisted in the building of SS Great Britain, the largest ship of its time which was also the first propeller-	(1905–57). French fashion designer Christian Dior dominated world fashion in the decade following World War II. Vivienne Westwood In the 1960's, alongside her husband Malcolm McLaren, she designed clothes with a rock 'n' roll influence which was very shocking to people at the time. Patrick Robinson has contributed to some of the most established and influential	Alain Ducasse- One of his signature dishes is the "Cappon Magro", a seafood salad first course based on a 16th-century recipe. Gordon Ramsay-He is a British celebrity chef, best known for his high-adrenaline cooking shows. Heston Blumenthal-He is famous for his unusual flavor pairings, such as bacon-and- egg ice cream. Jamie Oliver- He is another UK-based TV celebrity chef. He is famous for trying to encourage healthy eating, with his food philosophy being all about fresh ingredients and farm-to-table cooking at home Mary Berry- British baker, food writer, and television	
	1881: Carbon Light Bulb Filament, Invented by Lewis Latimer.	1966: Home Security System, Co- Invented by Marie Van Brittan Brown. 1974: James Dyson his first invention – the Ballbarrow -	Henry Ford Through his own experiments, he designed and developed a four-wheel vehicle	Armani, Paco Rabanne and Perry Ellis.	as a judge on The Great British Bake Off. Julia Child- American chef, author, and television personality who introduced	

Thomas Edison He is	replaced the wheel of a	which Edison	French cuisine to the
famous for the light bulb	wheelbarrow with a ball.	supported.	American public.
and the motion picture			
camera. 1891	Color IBM PC Monitor and		
	Gigahertz Chip, Co-Invented by		
	Mark Dean c. 1980 and 1999		
	Steve Jobs designed the iPod in		
	2001 to satisfy the demand for		
	music on the move. It was very		
	popular because it was small and		
	stylish.		
	2007: The PenPan Project the first		
	2007. The Repkap Project, the first		
	self-replicating 3D Printer,		
	developed at the University of		
	Bath.		