

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
F1	My Busy Body	Wonderful Woods Food -I can make bread. I can add water to the mixture and observe changes. I can knead the bread. I can roll the dough with a rolling pin.	Fantastic Families	On the Farm Woodland - I can join two pieces of wood using tools. I can use a hammer and nails safely. I can hold a nail in one hand and hammer with the other.	Growing and Changing Textiles - I can use a running stitch to make a butterfly. I can thread a plastic needle. I can join two pieces of felt (with precut holes) using a running stitch.	Walking through the Jungle
F2	My World Your World	Wonderful Winter Textiles - I can make a Christmas puppet. I can use a needle to make an over stitch in fabric with precut holes. I can join two pieces of fabric together using glue.	Out of the World	Fantastic Food Food - I can make vegetable soup. I can name different vegetables. I can chop soft vegetables using a knife. I can express a preference when tasting different soups.	From the Coast to the Woods	People Who Help Us Structures - I can design and make a box model emergency vehicle. I can draw a design of a vehicle visualising what I will build. I can choose a box that is the right size and shape and paint it the appropriate colour. I can join materials together using glue and tape to add detail to my design. I can explore ways to add wheels so they rotate. I can talk about my vehicle and what I like about it.

Y1/2 Cycle A	Giving	Traditions - Christmas TEXTILES Templates and joining – Design, make and evaluate a Christmas decoration to give as a gift to a family member. 1. I can investigate and evaluate different kinds of Christmas baubles. 2. I can practise using a running stitch, making my stitches more consistently sized. 3. - I can design a Christmas bauble using simple design criteria to develop my ideas. -I can select from a range of materials according to their characteristics. -I can communicate my design clearly using a labelled annotated sketch. 4. I can mark out a template on my choice of fabric 5. I can join two pieces of fabric using a running stitch. 6. I can join and combine decorative materials to finish my design. 7. I can make simple judgements about my product against the design criteria.	Fire and Ice	Secret World MECHANISMS Wheels and axels – Design, make and evaluate a wheeled trolley to carry sticks from the woods. 1. I can investigate and evaluate existing vehicles. 2. - I can explore materials and components by making a prototype. - I know the difference between free and fixed axles. 3. I can develop and communicate my ideas using a clearly labelled drawing. 4&5. I can assemble, join and combine materials and components. - I can measure, mark out, cut and shape materials and components. 6. I can make simple judgements about my vehicle against the design criteria. - I can suggest ways my product could be improved.	Catastrophes at Sea	Picture a Better World FOOD Preparing fruit and vegetables - Design, make and evaluate a salad for a class party that uses seasonal ingredients 1. I can recognise foods that are farmed and foods that can be grown in the garden. 2. I can investigate and evaluate a range of salad ingredients. 3. I can use simple design criteria to help me develop my ideas. 4&5 - I can use techniques including grating and chopping. - I can prepare simple dishes hygienically and safely 6. -I can make simple judgements about my summer salad against the design criteria. - I can suggest ways my product could be improved.
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Y1/2 Cycle B				Homes STRUCTURES Freestanding Structures – Design, make and evaluate a freestanding playground structure for children to play on in our school play area. 1. I can investigate and evaluate existing freestanding structures on my visit to the park. 2. I can build a simple freestanding structure, exploring ways it can be made strong and stable. 3. - I can design a playground structure using simple design criteria to help develop my ideas. - I can communicate my ideas by talking and drawing 4&5. - I can select a suitable base from a range materials according to the material's characteristics -I can assemble, join and combine materials and components 6. I can make simple judgements about my product against the design criteria.	Superheroes MECHANISMS Sliders and Levers – Design, make and evaluate a moving superhero picture for a young child to play with. 1. I can investigate and evaluate existing cards and books with moving parts. 2. I can assemble join and combine components to make slider and lever mechanisms. 3. - I can say what I am making and who I am making it for. - I can communicate my design ideas by drawing a labelled picture. 4&5. I can use a range of materials and mechanical components to make my design. - I can use finishing techniques including those from art and design to finish my moving picture. 6. I can make simple judgements about my product against the design criteria.	Animals FOOD -Additional Food Unit Design, make and evaluate a new vegetarian curry that can be served to the children at lunch time. 1. I understand the benefits of eating a variety of different fruit and veg. 2. I can make simple judgements and explain my preferences. 3. I can design a product and say what it is and who it is for. 4. I can use basic food preparation techniques including chopping and peeling. 5. I can make simple judgements about my product against the design criteria.
Y3	Me and My World FOOD	Dragons/China MECHANICAL SYSTEMS	Stone Age	Survival	Merchant of Venice TEXTILES	Egypt

	Healthy and varied diet – Design, make and evaluate a sandwich to take and eat on a class picnic 1. I can investigate and evaluate existing bread products. 2. I can use a range of equipment and food preparation techniques. 3. I can begin to develop design criteria and use these to inform design ideas. 4. I can make a sandwich, selecting equipment suitable for task. 5. I can use my design criteria to evaluate my finished sandwich. I can suggest ways I could improve my design.	Pneumatics – Design, make and evaluate a moving dragon for the class to use in a Chinese dragon dance. 1. I can construct a simple existing pneumatic system. 2. I can investigate the movement in different pneumatic systems. 3. - I can develop design criteria and use these to inform my ideas. -I can develop and model my idea by making a prototype. 4&5. I can make a product selecting tools and materials suitable for the task. 6. I can consider the views of others to help improve my work.			2D to 3D product – Design, make and evaluate a purse for Shylock to carry his money. 1. I can investigate and evaluate different purses and identify common criteria used in the design. 2. I can sew using running stitch and over stitch. 3 - I can communicate my design through an annotated sketch. - I can select materials according to their properties. - I can mark out and cut fabric using a pattern piece with some accuracy. 4,5&6. - I can sew materials together with some accuracy. -I can select a fastening for my product and explain my choices. 7. I can evaluate my product against the original design criteria. -I can identify the strengths and areas for development for my product	
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Y4	Inventions ELECTRICAL SYSTEMS Simple circuits and switches and monitoring and control – Design, make and evaluate a safety light for a child walking home from school in winter. 1. I can investigate and evaluate a wide range of personal lights 2. I can use different switches as an input device in a circuit. 3. I can suggest design criteria for my product. I can design a product to meet my design criteria. 4. I can program a microbit to create different outputs. 5. I can program a microbit to create different outputs. 6. I can evaluate my light design and explain how well it meets my design criteria.	Into the Jungle	Romans	India	Tempest MECHANICAL SYSTEMS Levers and linkages – Design, make and evaluate a moving book page for a picture book to inspire Year 1 children to read The Tempest. 1. I can investigate a range of different lever and linkage mechanisms and identify key parts. 2. I can assemble chosen lever and linkage mechanisms accurately. 3. - I can suggest design criteria for my product. - I can model and test my ideas using a prototype. 4&5. I can assemble, join and combine materials and components with some accuracy to make my lever and linkage mechanism. 6. - I can identify strengths and areas of development for my product. - I can consider the views of others to help improve my work.	Chocolate STRUCTURES – USING CAD IN DT Shell structures using CAD – Design, make and evaluate packaging to wrap a new chocolate bar created by Studio Chocolate. 1. I can investigate and evaluate existing shell structures 2. I can use Microsoft Word to format shapes. 3. - I can score and cut materials to make a simple shell structure. -I can strengthen a shell structure, making it stronger and stiffer. 4. - I can suggest some design criteria needed for my chocolate packaging. -I can indicate how some of my design features will appeal to the intended user. - I can use CAD (Word) to communicate and develop my ideas. 5 - I can cut and score materials with some accuracy. -I can assemble, and join materials with some accuracy 6. - I can identify strengths and areas of development for my product
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						- I can consider the views of others to help me improve my work.
						FOOD - Additional Food Unit Design make and evaluate an omelette to suit my tastes and which includes foods from different parts of the Eatwell Plate. 1. I can explain where different foods come from. 2. I know of and can talk about the local influential chef Sat Bains. 3. I can develop my own design criteria and use these to inform my ideas. 4. I can order the main stages when making an omelette 5. I can use a range of cooking techniques to make an omelette (including whisking, chopping, grating, peeling and slicing) 6. I can use the design criteria to evaluate my product. I can suggest ways I can improve my product.
Y5	Anglo Saxons	Africa TEXTILES Combining different fabric shapes	Vikings ELECTRICAL SYSTEMS Monitoring and Control	Ancient Greece FOOD Celebrating culture and seasonality - Design,	Macbeth	Blue Planet

		Design, make and evaluate a material bag for a family member to give as a gift. 1. I can investigate and evaluate existing bags 2. I can generate a set of design criteria based on research of the intended user. 3. -I can use tacking to hold material together temporarily. -I can join two pieces of fabric securely using a sewing machine. 4.- I can select appropriate tools and equipment suitable for a given task. - I can measure, mark out, cut and shape materials. 5. - I can evaluate the quality of my product against my own design criteria. -I can explain adjustments made during the design and make process. 6. I know about important local designer Paul Smith and his 'Signature stripe'	<u>Joint DT and Computing project</u> 1. I can investigate and evaluate a range of electrical products that use a computer control product. 2. I can write code to programme my crumble and create an output from a sparkle LED (including an infinite loop). 3. I can write code to programme my crumble and create an output from a sparkle and a motor (including a count controlled loop). 4. I can explain that a condition being met can start or stop an action. I can use selection (an 'if...then...' statement) to direct the flow of a programme. 5. I can communicate my ideas by drawing and labelling the electrical circuit of my product. I can indicate the design features of my product and how they will appeal to the intended user. 6&7. I can accurately mark out and measure and cut materials needed for my prototype.	make and evaluate Pitta bread and a dip to share with a friend which uses surplus ingredients from the school garden. 1. I can investigate existing dips and the food miles required to transport key ingredients to the UK 2. I can generate designs and ideas drawing on research 3&4. I can use a range of cooking techniques to make a product (including kneading, shaping, chopping, slicing, mixing). 5. I can evaluate the quality of my product against my own design criteria -I can explain any adjustments made during the designing and making process.		
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			I can accurately assemble, join and combine materials and components. 8. I can program my crumble to reflect the decisions I made for my product. I can assemble an electrical circuit that reflects the plan of my product. 9. I can evaluate my product detailing any adaptations made during the making process.			
Y6	Animal Kingdom	WW1 STRUCTURES Frame structures – Design, make and evaluate a bird box for Mrs Dakin to encourage birds into our outdoor classroom. 1. I can investigate and evaluate existing frame structures 2. I can use triangulation to add stability and strength to a 3D frame structure. 3. - I can create a set of design criteria for my finished product. - I can generate a design through discussion.	Mayan Mysteries	Freedom (Slave Trade)	Industrial Revolution MECHANICAL SYSTEMS Cams : Design, make and evaluate a moving cam toy for a child to play with. 1. I can investigate a range of products that use cams and label the key parts of the mechanism. 2. I can explain how different cams change the movement of the follower. 3. - I can create a set of design criteria for my design. - I can produce an annotated drawing	Location Location FOOD - Additional Food Topic Design, make and evaluate a healthy pizza for a Y6 end of year celebration. 1. I can explain the difference between processed and unprocessed food and give examples. 2. I can carry out research to understand the preferences of the intended user. 3. I can adapt a recipe to reflect my design decisions 4. I can produce appropriate lists of ingredients and equipment I will need to make my pizza

		4&5. -I can use Tinkercad to generate a design for my birdhouse. - Using Tinkercad I can combine two different 3D shapes together, change the size and shape of objects by adding 'handle dots', measure shapes accurately, make holes in shapes and duplicate shapes. 6&7&8. I can follow the procedures for safety when using woodwork equipment. - I can accurately measure mark out and cut wooden dowel. - I can reinforce and strengthen joints on a wooden frame structure. 9. - I can evaluate my product against the design criteria commenting on the quality of design, the making process and how fit it was for purpose. - I can show how I have been able to modify my design as I have worked through the project.			identifying key parts of my cam mechanism. - I can produce an appropriate list of the tools, equipment and materials I will need to make my design. 4&5. - I can accurately assemble and combine component parts to make a functioning cam system. - I can use a range of decorative finishing techniques. 6. I can evaluate the quality of my product against my own design criteria. - I can explain adjustments made during the design and make process. - I can consider the views of others to help me improve my work.	5. I can use a wide range of food preparation techniques to make a pizza from scratch (inc kneading mixing shaping, slicing, chopping, blending, straining, grating) 6. I can evaluate my product against my own design criteria. -I can explain adjustments and adaptations I have made during the design and make process.
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