



F2		
Autumn 1	Spring 1	Summer 1
EAD: To safely use and explore a variety of material, tools and		PSED (MS) Manage their own basic hygiene and personal needs, including
techniques, experimenting with colour, design, texture, form and		dressing, going to the toilet and understanding the importance of healthy
function		food choices.
To design and make an Autumn crown using natural found objects (DT)		To understand why different foods and drinks are important to keep my body healthy.
UTW (TNW) To explore the natural world around them, making		body ficultify.
observations and drawing pictures of animals and plants.		
To explore and taste some autumn vegetables (spinach, carrot, bell		
peppers). (Science) To cut and taste vegetables (DT)		
EAD, CWM: To make use of props and materials when role playing characters in narratives and stories To make a prop for my chosen job (DT)		
Autumn 2	Spring 2	Summer 2
		GD (FM) To use a range of small tools, including scissors, paint brushes and cutlery.
		To know how to scissors, paintbrushes and other tools.





Y1			
Autumn 1	Spring 1	Summer 1	
	Structures – Park for Barnaby Bear Designing To draw on own experience to help generate ideas. To design (talk about, draw and list my ideas) with a purpose/audience in mind. To model ideas in card and paper. Making To assemble, join and combine materials/components together using a variety of temporary methods (including different glues, taping and split pins). Evaluating To say what I like about my product and make suggestions for improvement. To evaluate products as they are developed, identifying strengths and possible changes. To explain what went well and what I can improve	Food – Funny face salad (linked to Jamie Oliver's Vegetables) Designing To design (talk about, draw and list my ideas) with a purpose/audience in mind. To suggest ideas/explain what they are going to do. Making To select from and use a wide range of materials and components, including ingredients, according to their characteristics. To use basic food handling and hygiene routines. To use simple finishing techniques to improve the appearance of product. To construct my salad based on my designs Evaluating To say what I like about my product and make suggestions for improvement.	
Autumn 2	Spring 2	Summer 2	
Mechanisms – Moving picture Designing To design (talk about, draw and list my ideas) with a purpose/audience in mind. Making To measure, mark out, cut (accurately) and shape a range of materials with support To use tools e.g. scissors and a hole punch safely. To assemble, join and combine materials/components together using a variety of temporary methods (including different glues, taping and split pins). Evaluating To evaluate a product by discussing how well it works.			

Y2		
Autumn 1	Spring 1	Summer 1





Mechanisms - toy space buggy for a lego passenger (NASA engineers)		
Designing		
To explore and evaluate a range of existing products.		
To design purposeful, functional, appealing products for themselves and		
other users		
To generate, develop, model and communicate their ideas through		
= -		
talking, drawing and mocks ups.		
To identify a purpose for product.		
To identify simple design criteria.		
To design a space buggy		
<u>Making</u>		
To make simple drawings and label parts.		
To select from and use accurately a range of tools to join, cut, shape and		
finish.		
To measure and cut with some accuracy.		
To use hand tools safely and appropriately.		
To assemble, join and combine materials in order to make product.		
To use mechanisms in models.		
To construct and make my space buggy		
To construct and make my space buggy		
Evaluating		
Evaluating To evaluate against design criteria.		
To evaluate products as they are developed, identifying strengths and		
possible changes they might make.		
To evaluate my strengths and changes against my criteria		
Autumn 2	Spring 2	Summer 2
	Food – Fruit salad	Textiles – Sew a purse
	Designing	Designing
	To explore and evaluate a range of existing products.	To explore and evaluate a range of existing products.
	To design purposeful, functional, appealing products for themselves and	,
	other users.	To design purposeful, functional, appealing products for themselves and
	To generate, develop, model and communicate their ideas through	other users
	talking, drawing and mocks ups.	To make simple drawings and label parts.
	To identify a purpose for product.	To identify simple design criteria.
	To design a fruit saland.	To identify simple design criteria.
		To make purposeful designs of a purse and identify criteria
	To communicate my ideas by presenting my design	To make purposerul designs of a purse and identify criteria
	Making	
	Making To follow of a green days for food of the end business	Malina
	To follow safe procedures for food safety and hygiene.	Making
	To choose and use appropriate finishing techniques.	To assemble, join and combine materials in order to make product.
	To make my fruit salad based on my designs	To measure and cut with some accuracy.
		To use basic sewing techniques.
	<u>Evaluating</u>	To choose and use appropriate finishing techniques.



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To talk about their ideas, saying what they like and dislike.	To cut, sew and join materials to make a purse
	Evaluating To evaluate against design criteria.





Y3		
Spring 1	Summer 1	
Spring 2	Summer 2	
Structures – Keep-sake box Designing To use research, investigate and analyse a range of existing products. To design (talk about, draw and list my ideas) with a purpose/audience in mind. To make drawings with labels when designing. To establish criteria for a successful product. To make labelled drawings of my design with success criteria identified	Mechanisms – Pop up book (Voitech Kubasta) Designing To explore, develop and communicate design proposals by modelling ideas. To design (talk about, draw and list my ideas) with a purpose/audience in mind.	
Making To explore, develop and communicate design proposals by modelling ideas To communicate my design ideas by explaining key concepts	Making To begin to understand and use mechanical systems. Measure, mark out, cut, score and assemble components with some accuracy	
	Spring 2 Structures – Keep-sake box Designing To use research, investigate and analyse a range of existing products. To design (talk about, draw and list my ideas) with a purpose/audience in mind. To make drawings with labels when designing. To establish criteria for a successful product. To make labelled drawings of my design with success criteria identified Making To explore, develop and communicate design proposals by modelling ideas	







To make models/products with increasing independence and accuracy. Measure, mark out, cut, score and assemble components with some accuracy.

Use finishing techniques to strengthen and improve the appearance of their product using a range of equipment, including ICT.

To construct my keepsake box

Evaluating

To evaluate ideas and products against own design criteria and make suggestions for improvement.

To be willing to change things if this helps improve work.

To make changes to improve my keepsake box

To select from and use a wide range of tools, techniques, materials and components, including ingredients, according to their characteristics. Use finishing techniques to strengthen and improve the appearance of their product using a range of equipment, including ICT.

To use design ideas to construct a pop up book

Evaluating

To evaluate ideas and products against own design criteria and make suggestions for improvement.





Y4		
Autumn 1	Spring 1	Summer 1
Mechanisms - Catapults		Food – Healthy layered salad
<u>Designing</u>		Designing
To understand how key events in design and technology have helped		To investigate and analyse a range of existing products
shape the world.		
		To consider purposes for which they are designing.
To investigate and analyse a range of existing products.		To make labelled drawings from different views showing specific
To consider purposes for which they are designing.		features.
To make labelled drawings from different views showing specific		To make clear designs of a layered salad from my research
features.		
To use my analysis to make labelled designs for a catapult		To develop a clear idea of what has to be done, planning how to use
		materials, equipment and processes, and suggesting alternative methods
To develop a clear idea of what has to be done, planning how to use		of making.
materials, equipment and processes, and suggesting alternative methods		To make a detailed plan of all the steps involved in the process
of making.		
·		Making
		To prepare a salad demonstrating safe chopping and cutting.
Making		To select appropriate tools and techniques.
To apply understanding of how to strengthen, stiffen and reinforce more		To prepare and make a layered salad
complex structures.		
To understand and use mechanical systems in product.		Evaluating
To select appropriate tools and techniques.		To evaluate ideas and products against design criteria.
To measure, mark out, cut and shape a range of materials, using		
appropriate tools, equipment and techniques.		
To join and combine materials and components accurately in temporary		
and permanent ways.		
To construct a catapult using appropriate tools and techniques		
Evaluating		
To evaluate ideas and products against design criteria.		
To evaluate work both during and at the end of the assignment.		
To evaluate products carrying out appropriate tests.		
To carry out tests in order to evaluate the success of my catapult against a		
set criteria		
Autumn 2	Spring 2	Summer 2
, (A) (A) (I) (I)	Electrical Systems – Torches (Thomas Edison and David Misell)	
	· · · · · ·	
	<u>Designing</u>	





Subject Implementation Overview

To understand how key events in design and technology have helped shape the world.

To investigate and analyse a range of existing products.

To consider purposes for which they are designing.

To make labelled drawings from different views showing specific features.

To develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making.

To make careful plans for my design, including labelled diagrams from different view points

Making

To understand and use electrical systems in products (series circuits incorporating switches, bulbs).

To select appropriate tools and techniques.

To measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques.

To join and combine materials and components accurately in temporary and permanent ways.

To construct my torch following my plans and designs

Evaluating

To evaluate ideas and products against design criteria.

To evaluate work both during and at the end of the assignment.

To evaluate products carrying out appropriate tests.

To test my torch in different environments to see how successful it is





Y5		
Autumn 1	Spring 1	Summer 1
Autumn 2	Spring 2	Summer 2
Structures – Bird boxes (Charles Waterton) Designing To research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose. To investigate and analyse a range of existing products. To research bird boxes and create criteria for a successful design Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making if the first attempts fail. Use results of investigations, information sources, including ICT when developing design ideas.	Mechanisms – Cam toy Designing To investigate and analyse a range of existing products. To research and develop design criteria to inform their designs that are fit for purpose. To research and investigate cams toys To generate, develop, model (with prototypes) and communicate their ideas through discussion and annotated sketches. To make model prototypes. Develop a clear idea of what has to be done, planning how to use	Food – Chilli Designing To investigate and analyse a range of existing products. To research and develop design criteria to inform their designs that are fit for purpose. To test products and ingredients prior to designing Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making if the first attempts fail. Use results of investigations, information sources, including ICT when developing design ideas.
To use my research to plan and draw my initial designs To generate, develop, model (with prototypes) and communicate their ideas through discussion and annotated sketches. To make modelled prototypes of my designs and adapt designs as needed Making Select appropriate materials, tools and techniques and use safely. Cut and join wood with accuracy to ensure a good quality finish. To use appropriate tools and techniques to make my bird box. Evaluating To evaluate ideas and products against design criteria and consider the views of others to improve own work. Evaluate product against the original design specification. Evaluate personally and seek evaluation from others. To give constructive criticism about mine and other's products, suggesting strengths and ideas for improvement	materials, equipment and processes, and suggesting alternative methods of making if the first attempts fail. To begin to generate innovative ideas drawing on research. Making To understand and use mechanical systems in products. Select appropriate materials, tools and techniques and use safely. Cut and join wood with accuracy to ensure a good quality finish. To make a cam toy based on my designs and prototypes Evaluating To evaluate ideas and products against design criteria and consider the views of others to improve own work. Evaluate product against the original design specification. Evaluate personally and seek evaluation from others. To suggest enhancements that I could make to my cam toy and others'	Making To continue to develop the principles behind a healthy and varied diet. To prepare and cook a savoury dish using different cooking techniques. Select appropriate materials, tools and techniques and use safely. Weigh and measure accurately (time, dry ingredients, liquids). Apply the rules for basic food hygiene and other safe practices e.g. hazards relating to the use of ovens. To prepare and cook a vegetarian chilli following food hygiene rules Evaluating To evaluate ideas and products against design criteria and consider the views of others to improve own work. Evaluate product against the original design specification. Evaluate personally and seek evaluation from others. To taste my chilli and identify strengths and suggest improvements





Autumn 1 Electrical Systems – Fairground rides (Goose Fair) Designing To understand how key events and individuals in D&T have helped shape	Spring 1 Textiles – Bags (Walter H Deubner – reinforced paper bag) Designing To understand how key events and individuals in D&T have helped shape	Summer 1 Food – Cupcakes Bake off (Nadiya Hussain)
Designing To understand how key events and individuals in D&T have helped shape	Designing	· · · · · · · · · · · · · · · · · · ·
To understand how key events and individuals in D&T have helped shape		l =
,	To understand how key events and individuals in D&T have helped shape	<u>Designing</u>
		To understand how key events and individuals in D&T have helped shap
he world.	the world.	the world.
To research and develop design criteria to inform the design of an	To research and develop design criteria to inform the design of an	To research and develop design criteria to inform the design of an
nnovative, functional, appealing products.	innovative, functional, appealing products.	innovative, functional, appealing products.
To research model fairground rides and identify what makes them	To research and identify the best bags based on their purpose	To taste a range of products and conduct research prior to designing
appealing to others		cupcakes
Process of the second s	To develop, model and communicate ideas through discussion, annotated	
To develop, model and communicate ideas through discussion, annotated	1, 1,	To develop, model and communicate ideas through discussion, annotate
sketches, cross-sectional and exploded diagrams and prototypes	(including CAD).	sketches, cross-sectional and exploded diagrams.
including CAD).	Plan the order of own work, choosing appropriate materials, tools and	Plan the order of own work, choosing appropriate materials, tools and
	techniques.	techniques.
Plan the order of own work, choosing appropriate materials, tools and	To plan, design and choose tools and material to make a bag	To make detailed designs of cupcakes based on quality research
echniques	To plan) acoign and choose tools and material to make a sug	Making
conniques	Making	To select the correct tools (use accurately and safely) and materials
Making	To select the correct tools (use accurately and safely) and materials	(according to functional properties and aesthetic qualities), components
To select the correct tools (use accurately and safely) and materials	(according to functional properties and aesthetic qualities), components	and techniques to make a successful product.
according to functional properties and aesthetic qualities), components	and techniques to make a successful product.	and techniques to make a successful product.
and techniques to make a successful product.	Construct products using permanent joining techniques.	
To apply their understanding of computing to program, monitor and	Pin, sew and stitch materials together.	
control their products (link to Year 5 computing to program, monitor and	To use learned techniques to make a bag	Evaluating
, , , , , , , , , , , , , , , , , , , ,	To use learned techniques to make a bag	To evaluate ideas and products against own design criteria and consider
Assemble components make working models.	E al artico	the views of others to improve work.
Construct products using permanent joining techniques.	Evaluating	Evaluate products identifying strengths and areas for development, and
To construct my own fairground toy using appropriate tools and techniques	, ,	carrying out appropriate tests.
	the views of others to improve work.	Record evaluations using drawings with labels.
Evaluating	Evaluate products identifying strengths and areas for development, and	To evaluate my cupcakes and make labelled drawings of improvements
To evaluate ideas and products against own design criteria and consider	carrying out appropriate tests.	made
the views of others to improve work.	Record evaluations using drawings with labels.	
Evaluate products identifying strengths and areas for development, and	To use my evaluations to design an enhanced bag, making note of any	
carrying out appropriate tests.	improvements suggested	
Record evaluations using drawings with labels.		
To carry out tests on my fairground toy and evaluate against the criteria		
Autumn 2	Spring 2	Summer 2



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