



# Design and Technology

Disciplinarians Concepts: Design, Make and Evaluate

Food, Structures, Textiles, Digital World, Electrical Systems, Mechanisms / Mechanical Systems



## Autumn

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p><b>My Planet Our Planet Reception</b> <b>Expressive Arts and Design</b> Explore, use and refine a variety of artistic effects to express their ideas and feelings. • Return to and build on their previous learning, refining ideas and developing their ability to represent them. • Create collaboratively, sharing ideas, resources and skills.</p> <p><b>Physical Development</b> • Develop their small motor skills so that they can use a range of tools competently, safely and confidently</p> <p><b>My Planet Our Planet</b></p>	<p><b>I'm Here</b> <b>Food</b> <b>Making a Smoothie Knowledge</b> • Understanding the difference between fruits and vegetables • To understand that some foods typically known as vegetables are actually fruits (e.g. cucumber) • To know that a fruit has seeds and a vegetable does not • To know that fruits grow on trees or vines • To know that vegetables can grow either above or below ground • To know that vegetables can come from different parts of the plant (e.g. roots: potatoes, leaves: lettuce, fruit: cucumber)</p> <p><b>Skills Design</b> • Designing smoothie carton packaging by-hand or on ICT software</p> <p><b>Make</b> • Chopping fruit and vegetables safely to make a smoothie • Identifying if a food is a fruit or a vegetable • Learning where and how fruits and vegetables grow</p> <p><b>Evaluate</b></p>	<p><b>Children should be seen and not heard</b> <b>Textiles</b> <b>Making a Puppet Knowledge</b> • To know that 'joining technique' means connecting two pieces of material together • To know that there are various temporary methods of joining fabric by using staples, glue or pins • To understand that different techniques for joining materials can be used for different purposes • To understand that a template (or fabric pattern) is used to cut out the same shape multiple times • To know that drawing a design idea is useful to see how an idea will look</p> <p><b>Skills Design</b> • Using a template to create a design for a puppet</p> <p><b>Make</b> • Cutting fabric neatly with scissors • Using joining methods to decorate a puppet • Sequencing steps for construction</p> <p><b>Evaluate</b></p>	<p><b>Stones, Bones and Survival</b> Stone Age <b>Textiles</b> <b>Making a Pouch Knowledge</b> • To know that sewing is a method of joining fabric • To know that different stitches can be used when sewing • To understand the importance of tying a knot after sewing the final stitch • To know that a thimble can be used to protect my fingers when sewing</p> <p><b>Skills Design</b> • Designing a pouch</p> <p><b>Make</b> • Selecting and cutting fabrics for sewing • Decorating a pouch using a running stitch • Threading a needle • Sewing running stitch, with evenly spaced, neat, even stitches to join fabric • Neatly pinning and cutting fabric using a template</p> <p><b>Evaluate</b> • Troubleshooting scenarios posed by teacher • Evaluating the quality of the stitching on others' work</p>	<p><b>Settle and Stamp</b> <b>Food</b> <b>Adapting a Recipe – Anglo Saxon bread Knowledge</b> • To know that the amount of an ingredient in a recipe is known as the 'quantity' • To know that it is important to use oven gloves when removing hot food from an oven • To know the following cooking techniques: sieving, creaming, rubbing method, cooling • To understand the importance of budgeting while planning ingredients for biscuits</p> <p><b>Skills Design</b> • Designing a biscuit within a given budget, drawing upon previous taste testing</p> <p><b>Make</b> • Following a baking recipe • Cooking safely, following basic hygiene rules • Adapting a recipe</p> <p><b>Evaluate</b> • Evaluating a recipe, considering: taste, smell, texture and appearance</p>	<p><b>Tomb Raiders</b> <b>Mechanical Systems</b> <b>Pop-up Book Pop up Mummy Knowledge</b> • To know that mechanisms control movement • To understand that mechanisms that can be used to change one kind of motion into another • To understand how to use sliders, pivots and folds to create paper-based mechanisms • To know that a design brief is a description of what I am going to design and make • To know that designers often want to hide mechanisms to make a product more aesthetically pleasing</p> <p><b>Skills Design</b> • Designing a pop-up book which uses a mixture of structures and mechanisms • Naming each mechanism, input and output accurately • Storyboarding ideas for a book</p> <p><b>Make</b></p>	<p><b>The Great War</b> <b>Textiles</b> <b>Knowledge</b> • To understand that it is important to design clothing with the client/target customer in mind • To know that using a template (or clothing pattern) helps to accurately mark out a design on fabric • To understand the importance of consistently sized stitches</p> <p><b>Skills Design</b> • Designing a waistcoat in accordance to specification linked to set of design criteria to fit a specific theme • Annotating designs</p> <p><b>Make</b> • Using a template when pinning panels onto fabric • Marking and cutting fabric accurately, in accordance with a design • Sewing a strong running stitch, making small, neat stitches and following the edge • Tying strong knots • Decorating a waistcoat - attaching objects using thread and adding a secure fastening • Learning different decorative stitches •</p>

	<p>Tasting and evaluating different food combinations</p> <ul style="list-style-type: none"> <li>• Describing appearance, smell and taste</li> <li>• Suggesting information to be included on packaging</li> </ul>	<p>Reflecting on a finished product, explaining likes and dislikes</p>	<ul style="list-style-type: none"> <li>• Discussing as a class, the success of their stitching against the success criteria</li> <li>• Identifying aspects of their peers' work that they particularly like and why</li> </ul>	<ul style="list-style-type: none"> <li>• Describing the impact of the budget on the selection of ingredients</li> <li>• Evaluating and comparing a range of products</li> <li>• Suggesting modifications</li> </ul>	<ul style="list-style-type: none"> <li>• Following a design brief to make a pop-up book, neatly and with focus on accuracy</li> <li>• Making mechanisms and/or structures using sliders, pivots and folds to produce movement</li> <li>• Using layers and spacers to hide the workings of mechanical parts for an aesthetically pleasing result</li> </ul> <p><b>Evaluate</b></p> <ul style="list-style-type: none"> <li>• Evaluating the work of others and receiving feedback on own work</li> <li>• Suggesting points for improvement</li> </ul>	<p>Sewing accurately with even regularity of stitches</p> <p><b>Evaluate</b></p> <ul style="list-style-type: none"> <li>• Evaluating work continually as it is created</li> </ul>
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**Disciplinarians Concepts: Design, Make and Evaluate**  
**Food, Structures, Textiles, Digital World, Electrical Systems (KS2), Mechanisms / Mechanical Systems**

**Spring**

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p><b>Frozen Planet</b></p> <p><b>Underwater Planet</b></p> <p><b>Reception</b></p> <p><b>Expressive Arts and Design</b></p> <p>Explore, use and refine a variety of artistic effects to express their ideas and feelings.</p> <ul style="list-style-type: none"> <li>Return to and build on their previous learning, refining ideas and developing their ability to represent them.</li> <li>Create collaboratively, sharing ideas, resources and skills.</li> </ul> <p><b>Physical Development</b></p> <ul style="list-style-type: none"> <li>Develop their small motor skills so that they can use a range of tools competently, safely and confidently</li> </ul> <p><b>ELG</b></p> <p><b>Physical Development</b></p> <p>Use a range of small tools, including scissors, paintbrushes</p> <p><b>Expressive Arts and Design</b></p>	<p><b>Castles and Kingdoms</b></p> <p><b>Structures</b></p> <p><b>Making a Chair</b></p> <p><b>Knowledge</b></p> <ul style="list-style-type: none"> <li>To know that shapes and structures with wide, flat bases or legs are the most stable</li> <li>To understand that the shape of a structure affects its strength</li> <li>To know that materials can be manipulated to improve strength and stiffness</li> <li>To know that a structure is something which has been formed or made from parts</li> <li>To know that a 'stable' structure is one which is firmly fixed and unlikely to change or move</li> <li>To know that a 'strong' structure is one which does not break easily</li> <li>To know that a 'stiff' structure or material is one which does not bend easily</li> <li>To know that natural structures are those found in nature</li> <li>To know that man-made structures are those made by people</li> </ul> <p><b>Skills</b></p>	<p><b>Britain is Great</b></p> <p><b>Food</b></p> <p><b>Knowledge</b></p> <ul style="list-style-type: none"> <li>To know that 'diet' means the food and drink that a person or animal usually eats</li> <li>To understand what makes a balanced diet</li> <li>To know where to find the nutritional information on packaging</li> <li>To know that the five main food groups are: Carbohydrates, fruits and vegetables, protein, dairy and foods high in fat and sugar</li> <li>To understand that I should eat a range of different foods from each food group, and roughly how much of each food group</li> <li>To know that nutrients are substances in food that all living things need to make energy, grow and develop</li> <li>To know that 'ingredients' means the items in a mixture or recipe</li> <li>To know that I should only have a maximum of five teaspoons of sugar a day to stay healthy</li> <li>To know that many food and drinks we do not expect to contain sugar</li> </ul>	<p><b>Riotous Romans</b></p> <p><b>Digital World</b></p> <p><b>Knowledge</b></p> <ul style="list-style-type: none"> <li>To understand that in programming a 'loop' is code that repeats something again and again until stopped</li> <li>To know that a Micro:bit is a pocket-sized, codeable computer</li> <li>Writing a program to control (button press) and/or monitor (sense light) that will initiate a flashing LED algorithm</li> <li>To know what the 'Digital Revolution' is and features of some of the products that have evolved as a result</li> <li>To know that in Design and technology the term 'smart' means a programmed product</li> <li>To know the difference between analogue and digital technologies</li> <li>To understand what is meant by 'point of sale display'</li> <li>To know that CAD stands for Computer-aided design</li> </ul> <p><b>Skills</b></p> <p><b>Design</b></p> <ul style="list-style-type: none"> <li>Problem solving by suggesting potential</li> </ul>	<p><b>Victorious Vikings</b></p> <p><b>Electrical Systems</b></p> <p><b>Knowledge</b></p> <ul style="list-style-type: none"> <li>To understand that an electrical system is a group of parts (components) that work together to transport electricity around a circuit</li> <li>To understand common features of an electric product (switch, battery or plug, dials, buttons etc.)</li> <li>To list examples of common electric products (kettle, remote control etc.)</li> <li>To understand that an electric product uses an electrical system to work (function)</li> <li>To know the name and appearance of a bulb, battery, battery holder and crocodile wire to build simple circuits</li> <li>To understand the importance and purpose of information design</li> <li>To understand how material choices (such as mounting paper to corrugated card) can improve a product to serve its purpose (remain rigid without bending when the electrical circuit is attached).</li> </ul> <p><b>Skills</b></p> <p><b>Design</b></p>	<p><b>The Time of Illumination</b></p> <p><b>Food</b></p> <p><b>Knowledge</b></p> <ul style="list-style-type: none"> <li>To know that 'flavour' is how a food or drink tastes</li> <li>To know that many countries have 'national dishes' which are recipes associated with that country</li> <li>To know that 'processed food' means food that has been put through multiple changes in a factory</li> <li>To understand that it is important to wash fruit and vegetables before eating to remove any dirt and insecticides</li> <li>To understand what happens to a certain food before it appears on the supermarket shelf (Farm to Fork)</li> </ul> <p><b>Skills</b></p> <p><b>Design</b></p> <ul style="list-style-type: none"> <li>Writing a recipe, explaining the key steps, method and ingredients</li> <li>Including facts and drawings from research undertaken</li> </ul> <p><b>Make</b></p> <ul style="list-style-type: none"> <li>Following a recipe, including using the correct quantities of each ingredient</li> </ul>	<p><b>Time Travel</b></p> <p><b>Structures</b></p> <p><b>Greek Parthenon</b></p> <p><b>Knowledge</b></p> <ul style="list-style-type: none"> <li>Understand how to strengthen, stiffen and reinforce 3-D frameworks.</li> <li>Know and use technical vocabulary relevant to the project</li> </ul> <p><b>Skills</b></p> <p><b>Design</b></p> <ul style="list-style-type: none"> <li>Carry out research into user needs and existing products, using surveys, interviews, questionnaires and web-based resources.</li> <li>Develop a simple design specification to guide the development of their ideas and products, taking account of constraints including time, resources and cost.</li> <li>Generate, develop and model innovative ideas, through discussion, prototypes and annotated sketches</li> </ul> <p><b>Make</b></p> <ul style="list-style-type: none"> <li>Formulate a clear plan, including a step-by-step list of what needs to be done and lists of resources to be used.</li> </ul>

<ul style="list-style-type: none"> <li>• Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.</li> <li>• Share their creations, explaining the process they have used</li> </ul>	<p><b>Design</b></p> <ul style="list-style-type: none"> <li>• Generating and communicating ideas using sketching and modelling</li> <li>• Learning about different types of structures, found in the natural world and in everyday objects</li> </ul> <p><b>Make</b></p> <ul style="list-style-type: none"> <li>• Making a structure according to design criteria</li> <li>• Creating joints and structures from paper/card and tape</li> <li>• Building a strong and stiff structure by folding paper</li> </ul> <p><b>Evaluate</b></p> <ul style="list-style-type: none"> <li>• Exploring the features of structures</li> <li>• Comparing the stability of different shapes</li> <li>• Testing the strength of own structures</li> <li>• Identifying the weakest part of a structure</li> <li>• Evaluating the strength, stiffness and stability of own structure</li> </ul>	<p>do; we call these 'hidden sugars'</p>	<p>features on a Micro: bit and justifying my ideas</p> <ul style="list-style-type: none"> <li>• Developing design ideas for a technology pouch</li> <li>• Drawing and manipulating 2D shapes, using computer-aided design, to produce a point of sale badge</li> </ul> <p><b>Make</b></p> <ul style="list-style-type: none"> <li>• Using a template when cutting and assembling the pouch</li> <li>• Following a list of design requirements</li> <li>• Selecting and using the appropriate tools and equipment for cutting, joining, shaping and decorating a foam pouch</li> <li>• Applying functional features such as using foam to create soft buttons</li> </ul> <p><b>Evaluate</b></p> <ul style="list-style-type: none"> <li>• Analysing and evaluating an existing product</li> <li>• Identifying the key features of a pouch</li> </ul>	<ul style="list-style-type: none"> <li>• Carry out research based on a given topic - Vikings to develop a range of initial ideas</li> <li>• Generate a final design for the electric poster with consideration to the client's needs and design criteria</li> <li>• Design an electric poster that fits the requirements of a given brief</li> <li>• Plan the positioning of the bulb (circuit component) and its purpose</li> </ul> <p><b>Make</b></p> <ul style="list-style-type: none"> <li>• Create a final design for the electric poster</li> <li>• Mount the poster onto corrugated card to improve its strength and withstand the weight of the circuit on the rear</li> <li>• Measure and mark materials out using a template or ruler</li> <li>• Fit an electrical component (bulb)</li> <li>• Learn ways to give the final product a higher quality finish (e.g. framing to conceal a roughly cut edge)</li> </ul> <p><b>Evaluate</b></p> <ul style="list-style-type: none"> <li>• Learning to give and accept constructive criticism on own work and the work of others</li> <li>• Testing the success of initial ideas against the design criteria and justifying opinions</li> <li>• Revisiting the requirements of the client to review developing design ideas and check that they fulfil their needs</li> </ul>	<ul style="list-style-type: none"> <li>• Adapting a recipe based on research</li> <li>• Working to a given timescale</li> <li>• Working safely and hygienically with independence</li> </ul> <p><b>Evaluate</b></p> <ul style="list-style-type: none"> <li>• Evaluating a recipe, considering: taste, smell, texture and origin of the food group</li> <li>• Taste testing and scoring final products</li> <li>• Suggesting and writing up points of improvements in productions</li> <li>• Evaluating health and safety in production to minimise cross contamination</li> </ul>	<ul style="list-style-type: none"> <li>• Competently select from and use appropriate tools to accurately measure, mark out, cut, shape and join construction materials to make frameworks.</li> <li>• Use finishing and decorative techniques suitable for the product they are designing and making.</li> </ul> <p><b>Evaluate</b></p> <ul style="list-style-type: none"> <li>• Investigate and evaluate a range of existing frame structures</li> <li>• Critically evaluate their products against their design specification, intended user and purpose, identifying strengths and areas for development, and carrying out appropriate tests</li> <li>• Research key events and individuals relevant to frame structures.</li> </ul>
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**Disciplinarians Concepts: Design, Make and Evaluate**  
**Food, Structures, Textiles, Digital World, Electrical Systems (KS2), Mechanisms / Mechanical Systems**

**Summer**

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p align="center"><b>Hot Planet</b></p> <p align="center"><b>Fantasy Planet</b></p> <p><b>ELG</b>  <b>Physical Development</b>                      Use a range of small tools, including scissors, paintbrushes  <b>Expressive Arts and Design</b>                      • Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.                      • Share their creations, explaining the process they have used</p>	<p align="center"><b>Time Travellers</b></p> <p align="center"><b>Mechanisms</b></p> <p><b>Knowledge</b>                      • To know some real-life items that use wheels such as wheelbarrows, hamster wheels and vehicles                      • To know that wheels need to be round to rotate and move                      • To understand that for a wheel to move it must be attached to a rotating axle                      • To know that an axle moves within an axle holder which is fixed to the vehicle or toy                      • To know that the frame of a vehicle (chassis) needs to be balanced</p> <p><b>Skills</b></p> <p><b>Design</b>                      • Designing a vehicle that includes wheels, axles and axle holders, which will allow the wheels to move                      • Creating clearly labelled drawings which illustrate movement</p> <p><b>Make</b>                      • Adapting mechanisms</p> <p><b>Evaluate</b>                      • Testing mechanisms, identifying what stops wheels from turning, knowing that a wheel needs an axle in order to move</p>	<p align="center"><b>We make a difference</b></p> <p align="center"><b>Structures</b></p> <p align="center"><b>Swedish Windmill</b></p> <p><b>Knowledge</b>                      • To understand that the shape of materials can be changed to improve the strength and stiffness of structures                      • To understand that cylinders are a strong type of structure (e.g. the main shape used for windmills and lighthouses)                      • To understand that axles are used in structures and mechanisms to make parts turn in a circle                      • To begin to understand that different structures are used for different purposes                      • To know that a structure is something that has been made and put together                      • To know that a client is the person I am designing for                      • To know that design criteria is a list of points to ensure the product meets the clients needs and wants                      • To know that a windmill harnesses the power of wind for a purpose like grinding grain, pumping water or generating electricity                      • To know that windmill turbines use wind to turn and make the machines inside work                      • To know that a windmill is a structure with sails</p>	<p align="center"><b>King Maker</b></p> <p align="center"><b>Structures</b></p> <p align="center"><b>Constructing a Castle</b></p> <p><b>Knowledge</b>                      • To understand that wide and flat based objects are more stable                      • To understand the importance of strength and stiffness in structures                      • To know the following features of a castle: flags, towers, battlements, turrets, curtain walls, moat, drawbridge and gatehouse - and their purpose                      • To know that a façade is the front of a structure                      • To understand that a castle needed to be strong and stable to withstand enemy attack                      • To know that a paper net is a flat 2D shape that can become a 3D shape once assembled                      • To know that a design specification is a list of success criteria for a product</p> <p><b>Skills</b></p> <p><b>Design</b>                      • Designing a castle with key features to appeal to a specific person/purpose                      • Drawing and labelling a castle design using 2D shapes, labelling: -the 3D shapes that will create the features - materials needed and colours                      • Designing and/or decorating a castle tower on CAD software</p>	<p align="center"><b>Industrial Revolution</b></p> <p align="center"><b>Mechanical Systems</b></p> <p><b>Knowledge</b>                      • To understand that all moving things have kinetic energy                      • To understand that kinetic energy is the energy that something (object/person) has by being in motion                      • To know that air resistance is the level of drag on an object as it is forced through the air                      • To understand that the shape of a moving object will affect how it moves due to air resistance.                      • To understand that products change and evolve over time                      • To know that aesthetics means how an object or product looks in design and technology                      • To know that a template is a stencil you can use to help you draw the same shape accurately                      • To know that a birds-eye view means a view from a high angle (as if a bird in flight)                      • To know that graphics are images which are designed to explain or advertise something                      • To know that it is important to assess and evaluate design ideas and models against a list of design criteria.</p> <p><b>Skills</b></p>	<p align="center"><b>Earth in Crises</b></p> <p align="center"><b>Digital World</b></p> <p><b>Knowledge</b>                      • To understand what variables are in programming                      • To know some of the features of a Micro:bit                      • To know that an algorithm is a set of instructions to be followed by the computer                      • To know that it is important to check my code for errors (bugs)                      • To know that a simulator can be used as a way of checking your code works before installing it onto an electronic device                      • Understand the terms 'ergonomic' and 'aesthetic'                      • Know that a prototype is a 3D model made out of cheap materials, that allows us                      • To test design ideas and make better decisions about size, shape and materials</p> <p><b>Skills</b></p> <p><b>Design</b>                      • Writing design criteria for a programmed timer (Micro:bit)                      • Exploring different mindfulness strategies                      • Applying the results of my research to further inform my design criteria                      • Developing a prototype case for my mindful moment timer</p>	<p align="center"><b>The Americas</b></p> <p align="center"><b>Electrical Systems</b></p> <p><b>Knowledge</b>                      • To know that batteries contain acid, which can be dangerous if they leak                      • To know the names of the components in a basic series circuit including a buzzer                      To know that 'form' means the shape and appearance of an object                      • To know the difference between 'form' and 'function'                      • To understand that 'fit for purpose' means that a product works how it should and is easy to use                      • To know that form over purpose means that a product looks good but does not work very well                      • To know the importance of 'form follows function' when designing: the product must be designed primarily with the function in mind                      • To understand the diagram perspectives 'top view', 'side view' and 'back view'</p> <p><b>Skills</b></p> <p><b>Design</b>                      • Designing a steady hand game - identifying and naming the components required                      • Drawing a design from three different perspectives                      • Generating ideas through sketching and discussion</p>

		<p>that are moved by the wind</p> <ul style="list-style-type: none"> <li>• To know the three main parts of a windmill are the turbine, axle and structure</li> </ul> <p><b>Skills</b></p> <p><b>Design</b></p> <ul style="list-style-type: none"> <li>• Learning the importance of a clear design criteria</li> <li>• Including individual preferences and requirements in a design</li> </ul> <p><b>Make</b></p> <ul style="list-style-type: none"> <li>• Making stable structures from card, tape and glue</li> <li>• Learning how to turn 2D nets into 3D structures</li> <li>• Following instructions to cut and assemble the supporting structure of a windmill</li> <li>• Making functioning turbines and axles which are assembled into a main supporting structure</li> </ul> <p><b>Evaluate</b></p> <ul style="list-style-type: none"> <li>• Evaluate their product by discussing how well it works in relation to the purpose, the user and whether it meets the original design criteria. Technical knowledge and understanding</li> </ul>	<p><b>Make</b></p> <ul style="list-style-type: none"> <li>• Constructing a range of 3D geometric shapes using nets</li> <li>• Creating special features for individual designs</li> <li>• Making facades from a range of recycled materials</li> </ul> <p><b>Evaluate</b></p> <ul style="list-style-type: none"> <li>• Evaluating own work and the work of others based on the aesthetic of the finished product and in comparison to the original design</li> <li>• Suggesting points for modification of the individual designs</li> </ul>	<p><b>Design</b></p> <ul style="list-style-type: none"> <li>• Designing a shape that reduces air resistance</li> <li>• Drawing a net to create a structure from</li> <li>• Choosing shapes that increase or decrease speed as a result of air resistance</li> <li>• Personalising a design</li> </ul> <p><b>Make</b></p> <ul style="list-style-type: none"> <li>• Measuring, marking, cutting and assembling with increasing accuracy</li> <li>• Making a model based on a chosen design</li> </ul> <p><b>Evaluate</b></p> <ul style="list-style-type: none"> <li>• Evaluating the speed of a final product based on: the effect of shape on speed and the accuracy of workmanship on performance</li> </ul>	<ul style="list-style-type: none"> <li>• Using and manipulating shapes and clipart, using computer-aided design (CAD), to produce a logo</li> <li>• Following a list of design requirements</li> </ul> <p><b>Make</b></p> <ul style="list-style-type: none"> <li>• Developing a prototype case for my mindful moment timer</li> <li>• Creating a 3D structure using a net</li> <li>• Programming a micro:bit in the Microsoft micro:bit editor, to time a set number of seconds/minutes upon button press</li> </ul> <p><b>Evaluate</b></p> <ul style="list-style-type: none"> <li>• Investigating and analysing a range of timers by identifying and comparing their advantages and disadvantages</li> <li>• Evaluating my micro:bit program against points on my design criteria and amending them to include any changes I made</li> <li>• Documenting and evaluating my project</li> <li>• Understanding what a logo is and why they are important in the world of design and business</li> <li>• Testing my program for bugs (errors in the code)</li> <li>• Finding and fixing the bugs (debug) in my code</li> </ul>	<ul style="list-style-type: none"> <li>• Modelling ideas through prototypes</li> <li>• Understanding the purpose of products (toys), including what is meant by 'fit for purpose' and 'form over function'</li> </ul> <p><b>Make</b></p> <ul style="list-style-type: none"> <li>• Constructing a stable base for a game</li> <li>• Accurately cutting, folding and assembling a net</li> <li>• Decorating the base of the game to a high quality finish</li> <li>• Making and testing a circuit Incorporating a circuit into a base</li> </ul> <p><b>Evaluate</b></p> <ul style="list-style-type: none"> <li>• Testing own and others finished games, identifying what went well and making suggestions for improvement</li> <li>• Gathering images and information about existing children's toys</li> <li>• Analysing a selection of existing children's toys</li> </ul>
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