

Bournmoor Primary School Progression in DT

	EYFS	Y1	Y2	Y3	Y4	Y5	Y6
Design	<ul style="list-style-type: none"> *select appropriate resources *use gestures, talking and arrangements of materials and components to show design * use contexts set by the teacher and myself *use language of designing and making (join, build, shape, longer, shorter, heavier etc) 	<ul style="list-style-type: none"> *have own ideas * explain what I want to do * explain what my product is for, and how it will work *Use pictures and words to plan, begin to use models * design a product for myself following design criteria *research similar existing products * Link products to the real world. 	<ul style="list-style-type: none"> * have own ideas and plan what to do next * explain what I want to do and describe how I may do it * explain the purpose of my product, how it will work and how it will be suitable for the user * describe design using pictures, words, models, diagrams, begin to use ICT * design products for myself and others following design criteria * choose best tools and materials, and explain choices * use knowledge of existing products to produce ideas 	<ul style="list-style-type: none"> *begin to research others' needs * show design meets a range of requirements * describe purpose of product * follow a given design criteria * have at least one idea about how to create product * create a plan which shows order, equipment and tools *describe design using an accurately labelled sketch and words * make design decisions *explain how product will work * make a prototype * begin to use computers to show design 	<ul style="list-style-type: none"> * use research for design ideas * show design meets a range of requirements and is fit for purpose *begin to create own design criteria *have at least one idea about how to create a product and suggest improvements for design * produce a plan and explain it to others *say how realistic a plan is *include an annotated sketch *make and explain design decisions considering availability of resources *explain how product will work * make a prototype *begin to use computers to show design 	<ul style="list-style-type: none"> *use internet and questionnaires for research and design ideas *take a user's view into account when designing * begin to consider needs/wants of individuals/groups when designing and ensure product is fit for purpose *create own design criteria * have a range of ideas *produce a logical, realistic plan and explain it to others. *use cross-sectional planning and annotated sketches * make design decisions considering time and resources. *clearly explain how parts of a product will work. *model and refine design ideas by 	<ul style="list-style-type: none"> * draw on market research to inform design * use research of user's individual needs, wants, requirements for design * identify features of design that will appeal to the intended user * create own design criteria and specification * come up with innovative design ideas *follow and refine a logical plan. *use annotated sketches, cross-sectional planning and exploded diagrams * make design decisions, considering, resources and cost * clearly explain how parts of design will work, and how they are fit for purpose * independently model and refine

						making prototypes and using pattern pieces. *use computer-aided designs	design ideas by making prototypes and using pattern pieces * use computer-aided designs
Make	<ul style="list-style-type: none"> *Construct with a purpose, using a variety of resources *Use simple tools and techniques *Build / construct with a wide range of objects *Select tools & techniques to shape, assemble and join *Replicate structures with materials / components *Record experiences by drawing, writing, voice recording *Understand different media can be 	<ul style="list-style-type: none"> *explain what I'm making and why *consider what I need to do next *select tools/equipment to cut, shape, join, finish and explain choices *measure, mark out, cut and shape, with support *choose suitable materials and explain choices *try to use finishing techniques to make product look good *work in a safe and hygienic manner 	<ul style="list-style-type: none"> *explain what I am making and why it fits the purpose *make suggestions as to what I need to do next. *join materials /components together in different ways *measure, mark out, cut and shape materials and components, with support *describe which tools I'm using and why *choose suitable materials and explain choices depending on characteristics. *use finishing techniques to make product look good 	<ul style="list-style-type: none"> *select suitable tools/equipment, explain choices; begin to use them accurately * select appropriate materials, fit for purpose * work through plan in order *consider how good product will be * begin to measure, mark out, cut and shape materials/components with some accuracy * begin to assemble, join and combine materials and components with some accuracy * begin to apply a range of finishing 	<ul style="list-style-type: none"> * select suitable tools and equipment, explain choices in relation to required techniques and use accurately *select appropriate materials, fit for purpose; explain choices * work through a plan in order. * realise if product is going to be good quality * measure, mark out, cut and shape materials /components with some accuracy *assemble, join and combine materials and components with some accuracy 	<ul style="list-style-type: none"> * use selected tools/equipment with good level of precision * produce suitable lists of tools, equipment/materials needed *select appropriate materials, fit for purpose; explain choices, considering functionality * create and follow detailed step-by-step plan * explain how product will appeal to an audience * mainly accurately measure, mark out, cut and shape materials /components *mainly accurately assemble, join and combine materials 	<ul style="list-style-type: none"> * use selected tools and equipment precisely *produce suitable lists of tools, equipment, materials needed, considering constraints * select appropriate materials, fit for purpose; explain choices, considering functionality and aesthetics * create, follow, and adapt detailed step-by-step plans *explain how product will appeal to audience; make changes to improve quality * accurately measure, mark out, cut and shape materials/components

	combined for a purpose		*work safely and hygienically	techniques with some accuracy	*apply a range of finishing techniques with some accuracy	/components * mainly accurately apply a range of finishing techniques * use techniques that involve a small number of steps * begin to be resourceful with practical problems	* accurately assemble, join and combine materials/components * accurately apply a range of finishing techniques * use techniques that involve a number of steps * be resourceful with practical problems
Evaluate	<ul style="list-style-type: none"> *Adapt work if necessary *Dismantle, examine, talk about existing objects/structures *Consider and manage some risks *Practise some appropriate safety measures independently *Talk about how things work *Look at similarities and differences between existing objects 	<ul style="list-style-type: none"> *talk about my work, linking it to what I was asked to do * talk about existing products considering: use, materials, how they work, audience, where they might be used *talk about existing products, and say what is and isn't good * talk about things that other people have made *begin to talk about what could make product better 	<ul style="list-style-type: none"> * describe what went well, thinking about design criteria * talk about existing products considering: use, materials, how they work, audience, where they might be used; express personal opinion *evaluate how good existing products are *talk about what I would do differently if I were to do it again and why 	<ul style="list-style-type: none"> * look at design criteria while designing and making *use design criteria to evaluate finished product * say what I would change to make design better *begin to evaluate existing products, considering: how well they have been made, materials, whether they work, how they have been made, fit for purpose * begin to understand by 	<ul style="list-style-type: none"> *refer to design criteria while designing and making *use criteria to evaluate product * begin to explain how I could improve original design *evaluate existing products, considering: how well they've been made, materials, whether they work, how they have been made, fit for purpose * discuss by whom, when and where 	<ul style="list-style-type: none"> *evaluate quality of design while designing and making *evaluate ideas and finished product against specification, considering purpose and appearance. *test and evaluate final product * evaluate and discuss existing products, considering: how well they've been made, materials, whether they work, how they have 	<ul style="list-style-type: none"> *evaluate quality of design while designing and making; is it fit for purpose? * keep checking design is best it can be *evaluate ideas and finished product against specification, stating if it's fit for purpose *test and evaluate final product; explain what would improve it and the effect different resources may have had *do thorough evaluations of existing products considering: how well they've been

	<p>/ materials / tools</p> <p>*Show an interest in technological toys</p> <p>*Describe textures</p>			<p>whom, when and where products were designed</p> <p>* learn about some inventors/designers / engineers/chefs/manufacturers of ground-breaking products</p>	<p>products were designed</p> <p>* research whether products can be recycled or reused</p> <p>* know about some inventors/designers / engineers/chefs/manufacturers of ground-breaking products</p>	<p>been made, fit for purpose</p> <p>* begin to evaluate how much products cost to make and how innovative they are</p> <p>*research how sustainable materials are</p> <p>*talk about some key inventors/designers / engineers/chefs/manufacturers of ground-breaking products</p>	<p>made, materials, whether they work, how they've been made, fit for purpose</p> <p>*evaluate how much products cost to make and how innovative they are</p> <p>*research and discuss how sustainable materials are</p> <p>*consider the impact of products beyond their intended purpose</p> <p>*discuss some key inventors/designers/ engineers/chefs/manufacturers of ground-breaking products</p>
<p>Technical knowledge - materials and structures</p>		<p>*begin to measure and join materials, with some support</p> <p>*describe differences in materials</p> <p>*suggest ways to make material/product stronger</p>	<p>*measure materials</p> <p>*describe some different characteristics of materials</p> <p>*join materials in different ways</p> <p>*use joining, rolling or folding to make it stronger</p>	<p>*use appropriate materials</p> <p>*work accurately to make cuts and holes</p> <p>* join materials</p> <p>*begin to make strong structures</p>	<p>*measure carefully to avoid mistakes</p> <p>*attempt to make product strong</p> <p>*continue working on product even if original didn't work</p> <p>*make a strong, stiff structure</p>	<p>*select materials carefully, considering intended use of product and appearance</p> <p>*explain how product meets design criteria</p> <p>*measure accurately enough to ensure precision</p>	<p>*select materials carefully, considering intended use of the product, the aesthetics and functionality.</p> <p>*explain how product meets design criteria</p> <p>* reinforce and strengthen a 3D frame</p>

			*use own ideas to try to make product stronger			*ensure product is strong and fit for purpose *begin to reinforce and strengthen a 3D frame	
Technical knowledge - mechanisms		*begin to use levers or slides	*use levers or slides *begin to understand how to use wheels and axles	*select appropriate tools / techniques *alter product after checking, to make it better *begin to try new/different ideas *use simple lever and linkages to create movement	*select most appropriate tools / techniques *explain alterations to product after checking it *grow in confidence about trying new / different ideas. *use levers and linkages to create movement *use pneumatics to create movement	*refine product after testing *grow in confidence about trying new / different ideas *begin to use cams, pulleys or gears to create movement	*refine product after testing, considering aesthetics, functionality and purpose *incorporate hydraulics and pneumatics *be confident to try new / different ideas *use cams, pulleys and gears to create movement
Technical knowledge - textiles		*measure, cut and join textiles to make a product, with some support *choose suitable textiles	*measure textiles *join textiles together to make a product, and explain how I did it *carefully cut textiles to produce accurate pieces *explain choices of textile *understand that a 3D textile structure can be made from	*join different textiles in different ways *choose textiles considering appearance and functionality *begin to understand that a simple fabric shape can be used to make a 3D textiles project	*think about user when choosing textiles *think about how to make product strong *begin to devise a template *explain how to join things in a different way *understand that a simple fabric shape can be used to make a 3D textiles project	*think about user and aesthetics when choosing textiles *use own template *think about how to make product strong and look better *think of a range of ways to join things *begin to understand that a single 3D textiles project can be made from a	*think about user's wants/needs and aesthetics when choosing textiles *make product attractive and strong *make a prototype *use a range of joining techniques *think about how product might be sold *think carefully about what would improve product

			two identical fabric shapes.			combination of fabric shapes.	*understand that a single 3D textiles project can be made from a combination of fabric shapes
Technical knowledge - Food and nutrition	<ul style="list-style-type: none"> *begin to understand some food preparation tools, techniques and processes *Practise stirring, mixing, pouring, blending *discuss how to make an activity safe and hygienic *discuss use of senses *understand need for variety in food *begin to understand that eating well contributes to good health 	<ul style="list-style-type: none"> *describe textures *wash hands & clean surfaces *think of interesting ways to decorate food *say where some foods come from, (i.e. plant or animal) *describe differences between some food groups (i.e. sweet, vegetable etc.) *discuss how fruit and vegetables are healthy *cut, peel and grate safely, with support 	<ul style="list-style-type: none"> *explain hygiene and keep a hygienic kitchen *describe properties of ingredients and importance of varied diet *say where food comes from (animal, underground etc.) *describe how food is farmed, home-grown, caught *draw eat well plate; explain there are groups of food *describe "five a day" *cut, peel and grate with increasing confidence 	<ul style="list-style-type: none"> *carefully select ingredients *use equipment safely *make product look attractive *think about how to grow plants to use in cooking *begin to understand food comes from UK and wider world *describe how healthy diet= variety/balance of food/drinks *explain how food and drink are needed for active/healthy bodies. *prepare and cook some dishes safely and hygienically *grow in confidence using some of the following techniques: peeling, chopping, slicing, grating, mixing, spreading, kneading and baking 	<ul style="list-style-type: none"> *explain how to be safe/hygienic *think about presenting product in interesting/ attractive ways *understand ingredients can be fresh, pre-cooked or processed *begin to understand about food being grown, reared or caught in the UK or wider world *describe eat well plate and how a healthy diet=variety / balance of food and drinks *explain importance of food and drink for active, healthy bodies *prepare and cook some dishes safely and hygienically *use some of the following techniques: peeling, chopping, slicing, grating, 	<ul style="list-style-type: none"> *explain how to be safe / hygienic and follow own guidelines *present product well - interesting, attractive, fit for purpose *begin to understand seasonality of foods *understand food can be grown, reared or caught in the UK and the wider world *describe how recipes can be adapted to change appearance, taste, texture, aroma *explain how there are different substances in food / drink needed for health *prepare and cook some savoury dishes safely and hygienically including, where appropriate, use of heat source 	<ul style="list-style-type: none"> *understand a recipe can be adapted by adding / substituting ingredients *explain seasonality of foods *learn about food processing methods *name some types of food that are grown, reared or caught in the UK or wider world *adapt recipes to change appearance, taste, texture or aroma *describe some of the different substances in food and drink, and how they can affect health *prepare and cook a variety of savoury dishes safely and hygienically including, where appropriate, the use of heat source *use a range of techniques confidently such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking

					mixing, spreading, kneading and baking	* use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking	
Technical knowledge - Electrical systems				*use a simple circuit in a product *learn about how to program a computer to control a product.	*use a number of components in a circuit *program a computer to control product	*incorporate a switch into product *confidently use a number of components in circuit *begin to be able to program a computer to monitor changes in environment and control product	*use different types of circuit in product * think of ways in which adding a circuit would improve product * program a computer to monitor changes in environment and control product