

To be the best we can be: for God, for others and for ourselves

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Design	*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.)	* 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	* have own ideas and plan what to do next * explain what I want to do and describe how I may do it * explain purpose of 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	*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	* 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 product and suggest improvements for design. * produce a plan and explain it to others *say how realistic 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.	*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 product will work. *model and refine design ideas by making prototypes and using pattern pieces. *use computer-aided designs	* 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 design ideas by making prototypes and using pattern pieces * use computer-aided designs
Make	*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 *Discuss how to make an activity safe and hygienic *Record experiences by drawing, writing, voice recording *Understand	*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	*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	*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	* 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 plan in order. * realise if product is going to be good quality * measure, mark out, cut and shape	* 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-	* 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



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	different media can be combined for	*work in a safe and	characteristics. *use finishing	with some accuracy *	materials/components	step plan * explain how	detailed step-by-step
	a purpose	hygienic manner	techniques to make product	begin to assemble, join and	with some accuracy	product will appeal to an	plans *explain how
			look good *work safely and	combine materials and	*assemble, join and	audience * mainly	product will appeal to
			hygienically	components with some	combine materials and	accurately measure,	audience; make changes
				accuracy * begin to apply a	components with some	mark out, cut and shape	to improve quality *
				range of finishing	accuracy *apply a range	materials/components	accurately measure,
				techniques with some	of finishing techniques	*mainly accurately	mark out, cut and shape
				accuracy	with some accuracy	assemble, join and	materials/components *
						combine	accurately assemble, join
						materials/components *	and combine
						mainly accurately apply a	materials/components *
						range of finishing	accurately apply a range
						techniques * use	of finishing techniques *
						techniques that involve a	use techniques that
						small number of steps *	involve a number of
						begin to be resourceful	steps * be resourceful
						with practical problem	with practical problems
Evaluate	*Adapt work if necessary	*talk about my work,	* describe what went well,	* look at design criteria	*refer to design criteria	*evaluate quality of	*evaluate quality of
	*Dismantle, examine, talk about	linking it to what I was	thinking about design criteria *	while designing and	while designing and	design while designing	design while designing
	existing objects/structures *Consider	asked to do * talk about	talk about existing products	making *use design criteria	making *use criteria to	and making *evaluate	and making; is it fit for
	and manage some risks *Practise	existing products	considering: use, materials, how	to evaluate finished	evaluate product * begin	ideas and finished	purpose? * keep
	some appropriate safety measures	considering: use, materials,	they work, audience, where	product * say what I would	to explain how I could	product against	checking design is best it
	independently *Talk about how	how they work, audience,	they might be used; express	change to make design	improve original design	specification, considering	can be. *evaluate ideas
	things work *Look at similarities and	where they might be used	personal opinion *evaluate how	better *begin to evaluate	*evaluate existing	purpose and appearance.	and finished product
	differences between existing objects	*talk about existing	good existing products are *talk	existing products,	products, considering:	*test and evaluate final	against specification,
	/ materials / tools *Show an interest	products, and say what is	about what I would do	considering: how well they	how well they've been	product * evaluate and	stating if it's fit for
	in technological toys *Describe	and isn't good * talk about	differently if I were to do it	have been made,	made, materials,	discuss existing products,	purpose *test and
	textures	things that other people	again and why	materials, whether they	whether they work, how	considering: how well	evaluate final product;
		have made *begin to talk		work, how they have been	they have been made, fit	they've been made,	explain what would
		about what could make		made, fit for purpose *	for purpose * discuss by	materials, whether they	improve it and the effect
		product better		begin to understand by	whom, when and where	work, how they have	different resources may
				whom, when and where	products were designed	been made, fit for	have had *do thorough
				products were designed *	* research whether	purpose * begin to	evaluations of existing
				learn about some	products can be recycled	evaluate how much	products considering:
				inventors/designers/	or reused * know about	products cost to make	how well they've been
				engineers/chefs/	some	and how innovative they	made, materials,
				manufacturers of ground	inventors/designers/	are *research how	whether they work, how
				breaking products	engineers/chefs/manufa	sustainable materials are	they've been made, fit
					cturers of ground-	*talk about some key	for purpose *evaluate
					breaking products	inventors/designers/	how much products cost
						engineers/	to make and how
						chefs/manufacturers of	innovative they are
				1			*research and discuss



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						ground breaking products	how sustainable materials are *consider the impact of products beyond their intended purpose *discuss some key inventors/designers/ engineers/ chefs/manufacturers of ground breaking products
Structures	* Begin to build structures with a range of materials inside and out (continuous provision and discrete projects). Explore vocabulary: * Build *Join *Construct	*begin to measure and join materials, with some support *describe differences in materials *suggest ways to make material/product stronger	*measure materials *describe some different characteristics of materials *join materials in different ways *use joining, rolling or folding to make it stronger *use own ideas to try to make product stronger	*use appropriate materials *work accurately to make cuts and holes * join materials *begin to make strong structures	*measure carefully to avoid mistakes *attempt to make product strong *continue working on product even if original didn't work *make a strong, stiff structure	*select materials carefully, considering intended use of product and appearance *explain how product meets design criteria *measure accurately enough to ensure precision *ensure product is strong and fit for purpose *begin to reinforce and strengthen a 3D frame	*select materials carefully, considering intended use of the product, the aesthetics and functionality. *explain how product meets design criteria * reinforce and strengthen a 3D frame
Mechanisms	* With support begin to incorporate moving parts in to models. For example, use split pins to make body parts move	begin to use levers or slides	*use levers or slides *begin to understand how to use wheels and axles			*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
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	*join different textiles in different ways *choose textiles considering appearance and functionality *begin to			



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Food and Nutrition	*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	*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	*explain choices of textile *understand that a 3D textile structure can be made from two identical fabric shapes *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	understand that a simple fabric shape can be used to make a 3D textiles project 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	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,	*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	*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.
Electrics					mixing, spreading, kneading and baking *use number of		*use different types of
Electrics					components in circuit *program a computer to control product		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