St Mary's CE(A) First School: Design and Technology Skills Progression
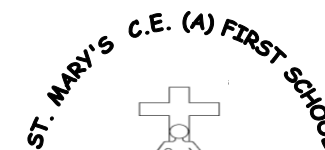
ST. MARY'S C.E. (A) FIRST SCHOOL
Learning to love
Loving to learn

	EYFS	Year One	Year Two	Year Three	Year Four
Designing	Can I use appropriate resources? Can I use gestures, talking and arrangements of materials and components to show design? Can I use contexts set by the teacher and myself? Can I use language of designing and making (join, build, shape, longer, shorter, heavier, etc.)	Can I have my own ideas? Can I explain what I want to do? Can I explain what my product is for, and how it will work? Can I use pictures and words to plan, begin to use models? Can I design a product for myself following design criteria? Can I research similar existing products?	Can I have own ideas and plan what to do next? Can I explain what I want to do and describe how I may do it? Can I explain purpose of product, how it will work and how it will be suitable for the user? Can I describe design using pictures, words, models, diagrams, begin to use ICT? Can I design products for myself and others following design criteria? Can I choose best tools and materials, and explain choices? Can I use knowledge of existing products to produce ideas?	Can I begin to research others' needs? Can I show design meets a range of requirements? Can I describe purpose of product? Can I follow a given design criterion? Can I have at least one idea about how to create product? Can I create a plan which shows order, equipment and tools? Can I describe design using an accurately labelled sketch and words? Can I make design decisions? Can I explain how product will work? Can I make a prototype? Can I begin to use computers to show design?	Can I use research for design ideas? Can I show design meets a range of requirements and is fit for purpose? Can I begin to create own design criteria? Can I have at least one idea about how to create product and suggest improvements for design? Can I produce a plan and explain it to others? Can I say how realistic plan is? Can I include an annotated sketch? Can I make and explain design decisions considering availability of resources? Can I explain how product will work? Can I make a prototype? Can I begin to use computers to show design?
Making	Can I use various construction materials? Am I beginning to construct, stacking blocks, making enclosures and creating spaces? Can I join construction pieces together to build and balance? Can I manipulate materials to achieve a planned effect? Can I construct with a purpose in mind, using a variety of resources? Can I use simple tools and techniques competently and appropriately? Can I select tools and techniques needed to shape, assemble and join materials I am using? Can I replicate structures with materials/components?	Can I explain what I'm making and why? Can I consider what I need to do next? Can I select tools/equipment to cut, shape, join, finish and explain choices? Can I measure, mark out, cut and shape, with support Can I choose suitable materials and explain choices? Can I try to use finishing techniques to make product look good? Can I work in a safe and hygienic manner?	Can I explain what I am making and why it fits the purpose? Can I make suggestions as to what I need to do next? Can I join materials/components together in different ways? Can I measure, mark out, cut and shape materials and components, with support? Can I describe which tools I'm using and why? Can I choose suitable materials and explain choices depending on characteristics? Can I use finishing techniques to make product look good? Can I work safely and hygienically?	Can I select suitable tools/equipment, explain choices; begin to use them accurately? Can I select appropriate materials, fit for purpose? Can I work through plan in order? Can I consider how good product will be? Can I begin to measure, mark out, cut and shape materials/components with some accuracy? Can I begin to assemble, join and combine materials and components with some accuracy? Can I begin to apply a range of finishing techniques with some accuracy?	Can I select suitable tools and equipment, explain choices in relation to required techniques and use accurately? Can I select appropriate materials, fit for purpose; explain choices Can I work through plan in order? Can I realise if product is going to be good quality? Can I measure, mark out, cut and shape materials/components with some accuracy? Can I assemble, join and combine materials and components with some accuracy? Can I apply a range of finishing techniques with some accuracy?

Evaluating	Can I select appropriate resources and adapt work where necessary? Can I dismantle, examine, talk about existing objects/structures? Can I talk about how things work? Can I look at similarities and differences between existing objects/materials/tools?	Can I talk about my work, linking it to what I was asked to do? Can I talk about existing products considering: use, materials, how they work, audience, where they might be used? Can I talk about existing products, and say what is and isn't good? Can I talk about things that other people have made? Can I begin to talk about what could make product better?	Can I describe what went well, thinking about design criteria? Can I talk about existing products considering: use, materials, how they work, audience, where they might be used; express personal opinion? Can I evaluate how good existing products are? Can I talk about what I would do differently if I were to do it again and why?	Can I look at design criteria while designing and making? Can I use design criteria to evaluate finished product? Can I say what I would change to make design better? Can I begin to evaluate existing products, considering: how well they have been made, materials, whether they work, how they have been made, fit for purpose? Can I begin to understand by whom, when and where products were designed? Can I learn about some inventors/designers/ engineers/chefs/ manufacturers of ground-breaking products?	Can [...] des[...] Can [...] Can [...] orig[...] Can [...] cons[...] mat[...] bee[...] Can I discuss by whom, when and where products were designed? Can I research whether products can be recycled or reused? Can I know about some inventors/designers/ engineers/chefs/manufacturers of ground-breaking products?
Technical knowledge	Do I realise tools can be used for a purpose?	Can I begin to measure and join materials, with some support Can I describe differences in materials? Can I suggest ways to make material/product stronger? Can I begin to use levers or slides? Can I measure, cut and join textiles to make a product, with some support? Can I choose suitable textiles?	Can I measure materials? Can I describe some different characteristics of materials? Can I join materials in different ways? Can I use joining, rolling or folding to make it stronger? Can I use own ideas to try to make product stronger? Can I use levers or slides? Can I begin to understand how to use wheels and axles? Can I measure textiles? Can I join textiles together to make a product, and explain how I did it? Can I carefully cut textiles to produce accurate pieces? Can I explain choices of textile? Can I understand that a 3D textile structure can be made from two ?identical fabric shapes?	Can I use appropriate materials? Can I work accurately to make cuts and holes? Can I join materials? Can I begin to make strong structures? Can I select appropriate tools / techniques? Can I alter product after checking, to make it better? Can I begin to try new/different ideas? Can I use simple lever and linkages to create movement? Can I join different textiles in different ways? Can I choose textiles considering appearance and functionality? Can I begin to understand that a simple fabric shape can be used to make a 3D textiles project? Can I use simple circuit in product? Can I learn about how to program a computer to control product?	Can I measure carefully to avoid mistakes? Can I attempt to make product strong? Can I continue working on product even if original didn't work Can I make a strong, stiff structure? Can I select most appropriate tools / techniques? Can I explain alterations to product after checking it? Can I grow in confidence about trying new / different ideas? Can I use levers and linkages to create movement? Can I use pneumatics to create movement? Can I think about user when choosing textiles? Can I think about how to make product strong? Can I begin to devise a template? Can I explain how to join things in a different way? Can I understand that a simple fabric shape can be used to make a 3D textiles project? Can I use number of components in circuit? Can I program a computer to control product?

Cooking and Nutrition	Can I begin to understand some food preparation tools, techniques and processes? Can I practise stirring, mixing, pouring, blending? Can I discuss how to make an activity safe and hygienic? Can I discuss the use of my senses? Can I understand the need for variety in food? Can I begin to understand that eating well contributes to good health?	Can I describe textures? Can I wash hands & clean surfaces? Can I think of interesting ways to decorate food? Can I say where some foods come from, (i.e. plant or animal)? Can I describe differences between some food groups (i.e. sweet, vegetable etc.)? Can I discuss how fruit and vegetables are healthy? Can I cut, peel and grate safely, with support?	Can I explain hygiene and keep a hygienic kitchen? Can I describe properties of ingredients and importance of varied diet? Can I say where food comes from (animal, underground etc.) Can I describe how food is farmed, home-grown, caught Can I draw eat well plate; explain there are groups of food Can I describe "five a day" Can I cut, peel and grate with increasing confidence	Can I carefully select ingredients? Can I use equipment safely? Can I make product look attractive? Can I think about how to grow plants to use in cooking? Can I begin to understand food comes from UK and wider world? Can I describe how healthy diet/ variety/balance of food/drinks? Can I explain how food and drink are needed for active/healthy bodies? Can I prepare and cook some dishes safely and hygienically? Can I grow in confidence using some of the following techniques: peeling, chopping, slicing, grating, mixing, spreading, kneading and baking?	Can I explain how to be safe/hygienic? Can I think about presenting product in interesting/ attractive ways? Can I understand ingredients can be fresh, pre-cooked or processed? Can I begin to understand about food being grown, reared or caught in the UK or wider world? Can I describe eat well plate and how a healthy diet/variety / balance of food and drinks? Can I explain importance of food and drink for active, healthy bodies? Can I prepare and cook some dishes safely and hygienically? Can I use some of the following techniques: peeling, chopping, slicing, grating, mixing, spreading, kneading and baking?