Design and Technolog	y Whole School Progression					
EYFS						
Nursery	Reception					
Key Skills	Key Skills					
Exploring and engaging	Exploring and engaging					
Stirring and mashing	Stirring and mashing					
Joining	Chopping and grating ingredients					
Building in rows and stacking vertically	Beating mixtures					
Moving blocks	Folding in ingredients with support					
Constructing	Building on a large scale outdoors with loose parts.					
-	Den building from a variety of resources.					
Vocabulary	Dismantling things and learning about how everyday objects work.					
Material and textures	Having opportunities to use a range of tools.					
	Exploring, designing and making at the woodwork bench.					
Tools	Varied range of joining techniques.					
Fork or potato masher	Building showing some understanding of pattern, shape and balance.					
Usingglue	Moving blocks.					
Blocks	Constructing more complex structures.					
Loose parts, crates, planks, cardboard boxes and large wooden blocks	Developing more complex tearing and folding.					
Age-appropriate construction kits	Vocabulary					
	Material and textures					
	Tools					
	Fork or potato masher					
	Knife					
	Grater					
	Whisk					
	Glue					
	Hole punch with support					
	Stapler with support					
	Large-eyed needles with support					
	Blocks					
	Loose parts, crates, planks, cardboard boxes and large wooden blocks					

			More of	omplex construction kit	S			
				Design and Evaluate Discussing and evaluating own and others' creations. Children talking about and planning and adapting their ideas. Discussing what makes activities safe or unsafe e.g. hygiene or when using tools.				
			Key Stage	1				
Design and Evaluat Design purposeful, Generate, develop, communication tec Explore and evalua	Own project work to include <u>Design and Evaluate</u> Design purposeful, functional, appealing products for themselves and other users based on design criteria Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology. Explore and evaluate a range of existing products Evaluate their ideas and products against design criteria							
KS1	Food	Textiles (within art & design)	Mechanism	Structures	Electrical Systems	Programming (stand alone or within		
Yr1	SkillsMeasure (non- standard units)Prepare (eg mash, stir, cut)Peel (with fingers)Basic food hygieneTools used Spoon	Skills Measure (non- standard units) Cut - attempt to cut a straight line with scissors Join – glue, staples, masking tape, paper clips		Skills Measure (non- standard units) Cut - attempt to cut with scissors Join – glue, staple masking tape, paper clips Fold		another topic)		
	Fork Knife – with support	<u>Tools used</u> Scissors Stapler		<u>Tools used</u> Scissors Stapler				

	Key vocabulary Healthy diet & nutrition Sweet & savoury Ingredients Grown	Glue Hole punch – with support Needle work – with support <u>Key vocabulary</u> Material Textiles		Glue Hole punch <u>Key vocabulary</u> Properties of material – strong, stiff, stable	
Yr 2	Skills Measure (non- standard units) Prepare (eg mash, stir, cut) Peel (with fingers and try peeler) Cut/chop Basic food hygiene		Skills Measure (non- standard units) and assemble to move a load/weight from a to b Tools used New DT cube!	Skills Measure (non- standard units) Cut with increased accuracy Join – glue, masking tape, paper clips, split pins, string/rope Fold	
	Tools used Spoon Fork Knife- independently eg banana Peeler – with support Key vocabulary Healthy diet & nutrition Sweet & savoury		<u>Key vocabulary</u> Slider Lever	Tools used Scissors Stapler Glue Hole punch Hammer Key vocabulary Properties of materials -strong, stiff, stable	

	Ingredients Grown <i>Seasonality</i>					
		l	ower Key Stag	ge 2		
individuals or group Generate, develop <u>Evaluate</u> Investigate and and Evaluate their idea Understand how kee Year 3: Tim Berners	evelop design criteria os , model and communi- a <mark>lyse</mark> a range of existir s and products against ey events and individu	cate their ideas throug ng products their own design crite als in design and tech als in design and tech b)	of innovative, functiona gh discussion, annotate eria and consider the vi nology have helped sha nology have helped sha	d sketches, prototype ews of others to impr pe the world	es and/or computer-aid	
Lower KS2	Food	Textiles	Mechanisms	Structures	Electrical	Programming
		(within art & design)			Systems	(stand alone or within another topic)
Yr3	Skills Measure with support (standard units) Prepare (eg mash, stir, cut) Cut/chop/slice Peel (with fingers	<u>Skills</u> Measure (standard units) Cut <i>in a straight</i> <i>line, begin to</i> <i>shape</i> Join – glue, staples, masking tape		Skills Measure accurately using standard units Cut carefully Join – glue, masking tape, paper clips, split		SkillsKnow how to debugone error in a set ofcode.Know how to plan aspecific route for aBeeBot.

	Mix Basic food hygieneTools used Spoon Fork Knife Peeler Measuring jug - with support Scales – with supportKey vocabulary Healthy varied diet & nutrition Sweet & savoury Ingredients Seasonality Grown, reared, caught Standard unit of measurement – grammes	independence to thread a needle To be aware of different stitches Tools used Scissors Stapler Glue Needle Glue gun with support		pins, string/rope, nails Fold Tools used Scissors Stapler Glue Hole punch Hammer Saw Glue gun Key vocabulary Measure Cut Join Fold Properties & function of materials -strong, stiff, stable		Key vocabulary Route Direction Orientation Block coding Sequence Loops Debug
Yr4	Skills Measure with increased accuracy (standard units) Prepare		Skills Move a greater load from a to b in 2 different ways. Understand how		Skills To assemble components successfully	Skills Know how to debug <i>multiple</i> errors in a set of code.
	Cut/chop/slice Peel Mix		gears and pulleys can be used to		Tools used Bulbs Crocodile clip	Know how to plan a <i>more complex</i> route for a BeeBot.

Basic food hygiene Tools used Spoon Fork Knife Peeler Measuring jug – with support Scales – with support Key vocabulary Healthy varied diet	speed up, slow down. <u>Tools used</u> New DT cube! <u>Key vocabulary</u> Slider Lever Pulley Gear	<u>Key vocabulary</u> <i>Circuits Bulbs</i> <i>Crocodile clip</i>	Key vocabularyRouteDirectionOrientationBlock codingSequenceLoopsDebugAlgorithmsBlock codingControlsVariableDebug
& nutrition Sweet & savoury Ingredients Seasonality Grown, reared, caught Standard units of measurement – grammes			
	Upper Key Stage 2		
Own project work to include <u>Design</u> Use research and develop design criteria to inform ⁻ individuals or groups Generate, develop, model and communicate their i <mark>pattern pieces and</mark> computer-aided design.	he design of innovative, functional, appeali		•

Evaluate

Investigate and analyse a range of existing products.

Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.

Understand how key events and individuals in design and technology have helped shape the world.

Year 5: Alexander Graham Bell (telephone)

Year 6: W.B Wilkinson (concrete)

Upper KS2	Food	Textiles	Mechanisms	Structures	Electrical	Programming
		(within art & design)			Systems	(stand alone or within another topic)
Yr5	SkillsMeasure(standard units,increasedaccuracy)PrepareCut/chop/slicePeelMix/stir/beatBasic food hygieneTools usedSpoonForkKnifePeelerMeasuring jugScalesKey vocabularyHealthy varied diet	SkillsMeasure (standardunits, greaterdegree ofaccuracy)Cut around apatternJoin - Sewmaterials together.Demonstraterunning stitch withsome precision.To be aware andattempt differentstitches.Needle work –independentlythread a needle.Finishing – beginto tie off thethread, decoration			Skills To assemble components making working models Tools used Bulbs Crocodile clip Switches Buzzes Motors Key vocabulary Circuits Bulbs Crocodile clip Switches Buzzes Motors	another topic) Skills Know how to create a set of accurate code, predicting the outcome. Key vocabulary Route Direction Orientation Block coding Sequence Loops Debug Algorithms Block coding Controls Variable Debug Predictions
	& nutrition Sweet & savoury	(eg with buttons)				

	Ingredients	Tools used			
	Seasonality	Scissors			
	Grown, reared,	Stapler			
	caught, processed	Glue			
	Standard units of	Needle			
	measurement –	Glue gun			
	kg, grammes, ml,	Key vocabulary			
	litre	Material			
	Temperature	Textiles			
		Fabric			
		Finishing			
Yr6	<u>Skills</u>		<u>Skills</u>	<u>Skills</u>	<u>Skills</u>
110	Measure		Move a greater load	Measure	Know how to create a
	(standard units,		from a to b in 3	accurately using	set of code for <i>a</i>
	greater degree of		different ways	standard units	specific purpose,
	accuracy)		Understand how	Cut carefully	predicting and
	Prepare		gears and pulleys	Join-glue,	debugging outcomes.
	Cut/chop/slice		can be used to	masking tape,	
	Peel		speed up, slow	paper clips, split	Key vocabulary
	Mix/stir/beat		down <i>or change the</i>	pins, string/rope,	Route
	Supervised use of		direction of	nails, screws	Direction
	cooking appliance		movement.	Fold	Orientation
	(heat)			Construct more	Block coding
	Basic food hygiene		<u>Tools used</u>	complex structures	Sequence
			New DT cube!		Loops
	Tools used			<u>Tools used</u>	Debug
	Spoon		Key vocabulary	Scissors	Algorithms
	Fork		Slider	Hole punch	Block coding
	Knife		Lever	Saw	Controls
	Peeler		Pulley	Glue gun	Variable
	Measuringjug		Gear	Hammer	Debug
	Scales		Ratio	Drill (with support)	Predictions

Key vocabulary	Key vocabulary
Healthy varied	Measure
diet & nutrition	Cut
Sweet & savoury	Join
Ingredients	Properties &
Seasonality	function of
Grown, reared,	materials – strong,
caught, processed	stiff, stable
Standard units of	Components
measurement-	Reinforce
kg, grammes, ml,	
litres	