Treales CE Primary Key Skills

				Year 1			
		ng and communicating deas		rking with tools, equipment, material components to make quality produc		Evaluating proc	cesses and products
Ideas Can they think of some ideas of their own? Can they explain what they want to do? Can they use pictures and words to plan? Can they explain what they are making? Can they make simple plans before making objects, e.g. Drawings, arranging pieces of construction before building?		Which tools are they using? Can they make a structure/ model using different materials? Is their work tidy? Can they make a product which moves? Can they cut materials using scissors? Can they describe the materials using different words?		Can they describe how something works? Can they talk about their own work and things the other people have done? Can they make their model stronger if it needs to be? Can they say why they have chosen moving part Can they talk with others about how they want to construct their product? Can they select appropriate resources and tools their building projects?			
			1	Breadth of Study	1		
Cc	ooking & Nutrition	Textiles		Mechanisms	μ.	Jse of materials	Construction
Can textu Do th and surfa Can intere decc	they cut food safely? they describe the ure of foods? ney wash their hands make sure that ices are clean? they think of esting ways of orating food they e made, eg, cakes?	Can they describe how different textiles feel? Can they make a product from textiles by gluing?	t (Can they make a product which moves? Can they cut materials using scissors? Can they describe the materials using different words? Can they say why they have chosen moving parts?	structur materic Is their v	vork tidy? ey make their model	Can they talk with others about how they want to construct their product? Can they select appropriate resources and tools for their building projects? Can they make simple plans before making objects, e.g. drawings, arranging pieces of construction before

building?



Can they explain what went well with their work? If they did it again, can they explain what they would improve? Can they join things (materials/ components) together in different ways? Can they describe their design by using pictures, diagrams, models and words?



		Knowledge, Ski	lls an	d Understanding breakdown for De	esign an	d Technology	
		=		Year 2			
	Developing, planning and communicating ideas		W	Working with tools, equipment, materials and components to make quality products		Evaluating processes and products	
Expected	next? Can they choose the			they join things (materials/ components) t ferent ways?	ogether		went well with their work? they explain what they
Co	oking & Nutrition	Textiles	•	Breadth of Study Mechanisms		Jse of materials	Construction
prope ingre Can mear	they describe the erties of the dients they are using? they explain what it hs to be hygienic? hey hygienic in the en?	Can they measure textile? Can they join textiles toge to make something? Can they cut textiles? Can they explain why the chose a certain textile?	ther	Can they join materials together as part of a moving product? Can they add some kind of design to their product?	use in a Can the differen Can the	ey measure materials to model or structure? ey join material in t ways? ey use joining, folding or o make it stronger?	Can they make sensible choices as to which material to use for their constructions? Can they develop their own ideas from initial starting points? Can they incorporate some type of movement into models? Can they consider how to improve their construction?



Can they use equipment and tools accurately?

Can they explain what they changed which made their design even better?

Can they describe their design using an accurately labelled sketch and words?

How realistic is their plan?

Exceeding

		Year 3	
	Developing, planning and communicating ideas	Working with tools, equipment, materials and components to make quality products	Evaluating processes and products
Expected	Can they show that their design meets a range of requirements? Can they put together a step-by-step plan which shows the order and also what equipment and tools they need? Can they describe their design using an accurately labelled sketch and words? How realistic is their plan?	Can they use equipment and tools accurately?	Can they explain what they changed which made their design even better?
		Breadth of Study	



	Can they join textiles of	Do they select the most appropriate	Do they use the most	Do they select the most
Can they choose the right	different types in different	tools and techniques to use for a given	appropriate materials?	appropriate materials?
ingredients for a product?	ways?	task?	Can they work accurately to	Can they use a range of
Can they use equipment	Can they choose textiles both	Can they make a product which uses	make cuts and holes?	techniques to shape and
safely?	for their appearance and also	both electrical and mechanical	Can they join materials?	mould?
Can they make sure that	qualities?	components?		Do they use finishing
their product looks		Can they use a simple circuit?		techniques?
attractive?		Can they use a number of		
Can they describe how		components?		
their combined ingredients				
come together?				
Can they set out to grow				
plants such as cress and				
herbs from seed with the				
intention of using them for				
their food product?				
Do they take time to a Do they work at their p	eir product, thinking of both apped consider how they could have ma product even though their original ne improvements and say what wo	de their idea better?	nal design?	



		Year 4		
	Developing, planning and communicating ideas	Working with tools, equipment, materials and components to make quality products	Evaluating processes and products	
Exceeding	Can they come up with at least one idea about how to create their product? Do they take account of the ideas of others when designing? Can they produce a plan and explain it to others? Can they suggest some improvements and say what was good and not so good about their original design?	Can they tell if their finished product is going to be good quality? Are they conscience of the need to produce something that will be liked by others? Can they show a good level of expertise when using a range of tools and equipment? Do they work at their product even though their original idea might not have worked?	Have they thought of how they will check if their design is successful? Can they begin to explain how they can improve their original design? Can they evaluate their product, thinking of both appearance and the way it works? Do they take time to consider how they could have made their idea better?	
Co	oking & Nutrition Textiles	Breadth of Study Mechanisms	Use of materials Construction	



to be Have they their	ney know what to do e hygienic and safe? e they thought what can do to present product in an esting way?	Do they think what the user would want when choosing textiles? Have they thought about how to make their product strong? Can they devise a template? Can they explain how to join things in a different way?	Can they add things to their circuits? How have they altered their product after checking it? Are they confident about trying out new and different ideas?	Can they measure carefully so as to make sure they have not made mistakes? How have they attempted to make their product strong?	Can they use a range of advanced techniques to shape and mould? Do they use finishing techniques, showing an awareness of audience?	
Emerging	Can they evaluate appearance and function against the original criteria? Can they explain how their product will appeal to the audience? Do they take a user's view into account when designing?					

	Knowledge, Skills and Understanding breakdown for Design and Technology						
	Year 5						
	Developing, planning and communicating ideas	Working with tools, equipment, materials and components to make quality products	Evaluating processes and products				
Expected	Can they come up with a range of ideas after they have collected information? Do they take a user's view into account when designing? Can they produce a detailed step-by-step plan? Can they suggest some alternative plans and say what the good points and drawbacks are about each?	Can they explain why their finished product is going to be of good quality? Can they explain how their product will appeal to the audience? Can they use a range of tools and equipment expertly? Do they persevere through different stages of the making process?	Do they keep checking that their design is the best it can be? Do they check whether anything could be improved? Can they evaluate appearance and function against the original criteria?				



		Breadth of Study		
Cooking & Nutrition	Textiles	Mechanisms	Use of materials	Construction
Can they describe what they do to be both hygienic and safe? How have they presented their product well?	Do they think what the user would want when choosing textiles? How have they made their product attractive and strong? Can they make up a prototype first? Can they use a range of joining techniques?	Can they incorporate a switch into their product? Can they refine their product after testing it? Can they incorporate hydraulics and pneumatics?	Are their measurements accurate enough to ensure that everything is precise? How have they ensured that their product is strong and fit for purpose?	Are they motivated enough to refine and further improve their product using mouldable materials?
Can they justify their p	et all design criteria? of the product when selecting materials? plan to someone else? ure and society in their designs?)	1	

Knowledge, Skills and Understanding breakdown for Design and Technology				
Year 6				
Developing, planning and communicating ideas	Working with tools, equipment, materials and components to make quality products	Evaluating processes and products		



Expected	Can they use a range of information to inform their design? Can they use market research to inform plans? Can they work within constraints? Can they follow and refine their plan if necessary? Can they justify their plan to someone else? Do they consider culture and society in their designs?		<u>Can they use tools and materia</u> Do they change the way they c	are working if needed	Product? Is it fit for purpose? What would improve it Would different resource product? Would they need more make it even better? Does their product me	ces have improved their e or different information to
			Breadth of St	-		
Can prod with I Can their view takin	they explain how their uct should be stored reasons? they set out to grow own products with a to making a salad, g account of time red to grow different s?	Textiles Have they thought about ha their product could be sold? Have they given considered thought about what would improve their product even more?	their product?	nds of circuit in Can selea which adding How heir product? their acc Can impr	Use of materials they justify why they cted specific materials? whave they ensured that work is precise and urate? they hide joints so as to rove the look of their duct?	Construction Can they justify why the chosen material was the best for the task? Can they justify design in relation to the audience?
Exceeding						

