Deer Park Primary School



Design and Technology Progression Framework Design and Technology Whole School Curriculum Cycle

Key

Knowledge and Understanding

Skills

Design and Technology EYFS and Year 1 Cycle						
Autumn		Spi	Spring Summer		nmer	
Teddy (A)	Moving parts (B)	Clay Penguins (A)	Cheese Scones (B)	Strawberry Jam (A)	Well Dressings (B)	

EYFS

- •Can they draw and paint using a range of materials, tools and techniques, experimenting with colour, design, texture, form and function?
- •Can they safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function?
- •Can they share their creations, explaining the process they have used?
- •Can they make use of props and materials when role-playing characters in narratives and stories.?

•Can they measure textiles? •Can they join material in different ways? •Can they join textiles together to make something? •Can they cut textiles? •Can they explain why they chose a certain textile? •Is their work tidy?	•Can they make a product which moves? •Can they cut materials using scissors? •Can they join materials together as part of a moving product? •Can they measure materials to use in a model or structure? •Can they make a structure/ model using different materials? •Can they describe the materials using different words? •Can they say why they have chosen moving parts? •Can they add some kind of design to their product?	•Can they join material in different ways? •Can they use joining, folding or rolling to make materials stronger? •Can they make their model stronger if it needs to be? •Can they consider how to improve their construction? •Can they develop their own ideas from initial starting points? •Can they talk with others about how they want to construct	•Can they cut food safely? •Can they describe the texture of foods? •Do they wash their hands and make sure that surfaces are clean? •Can they think of interesting ways of decorating food they have made, e.g, cakes?	•Can they describe the properties of the ingredients they are using? •Can they explain what it means to be hygienic? •Are they hygienic in the kitchen?	•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 make sensible choices as to which material to use for their constructions? •Can they incorporate some type of movement into models? •Can they consider how to improve their construction? •Can they develop their own ideas from initial starting points? •Can they talk with others about how they want to construct
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Developing, planning and communicating ideas	Working with tools, equipment, materials and components to make quality products	Evaluating processes and products
•Can they explain what they want to do? •Can they use pictures and words to plan?	•Can they explain what they are making? •Which tools are they using? •Can they join things (materials/ components) together in different ways?	•Can they describe how something works? •Can they talk about their own work and things that other people have done? •What went well with their work? •If they did it again, what would they want to improve?

		Design and Techno	logy Year 1 and 2 Cycle		
Au	tumn	Spring		Summer	
Textiles (A)	Cooking and Nutrition (B)	Mechanisms (A)	Textiles (B)	Cooking and Nutrition (A)	Construction (B)
•Can they make a product from textile by gluing? •Can they describe how different textiles feel?	•Can they cut food safely? •Can they describe the texture of foods? •Do they wash their hands and make sure that surfaces are clean? •Can they think of interesting ways of decorating food they have made, e.g, cakes?	•Can they make a product which moves? •Can they cut materials using scissors? •Can they join materials together as part of a moving product? •Can they measure materials to use in a model or structure? •Can they make a structure/model using different materials? •Can they describe the materials using different words? •Can they say why they have chosen moving parts? •Can they add some kind of design to their product?	•Can they measure textiles? •Can they join material in different ways? •Can they join textiles together to make something? •Can they cut textiles? •Can they explain why they chose a certain textile? •Is their work tidy?	•Can they describe the properties of the ingredients they are using? •Can they explain what it means to be hygienic? •Are they hygienic in the kitchen?	•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 make sensible choices as to which material to use for their constructions? •Can they incorporate some type of movement into models? •Can they use joining, folding or rolling to make materials stronger? •Can they make their model stronger if it needs to be? •Can they consider how to improve their construction? •Can they develop their own ideas from initial starting points? •Can they talk with others about how they want to construct their product?
Developing, planning and communicating ideas		_	equipment, materials and Evaluating processes and products		processes and products
•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 think of ideas and plan what to do next? •Can they choose the best tools and materials? •Can they give a reason why these are best? •Can they describe their design by using pictures, diagrams, models and words?		•Can they explain what the •Which tools are they using •Can they join things (mate together in different ways?]? erials/ components)	•Can they describe how something works? •Can they talk about their own work and things that other people have done? •What went well with their work? •If they did it again, what would they want to improve?	

Design and Technology Year 3 and 4 Cycle						
Autumn		Spring		Summer		
Textiles (A)	Mechanisms (B)	Sculpture (A)	Mechanisms (B)	Stone Age Houses (A)	Money containers (B)	
•Can they join textiles of different types in different ways? •Can they choose textiles both for their appearance and also qualities? •Can they devise a template? •Do they think what the user would want when choosing textiles? •Have they thought about how to make their product strong? •Can they explain how to join things in a different way?	•Can they make a product which uses both electrical and mechanical components? •Can they use a simple circuit? •Can they use a number of components? •Do they select the most appropriate tools and techniques to use for a given task?	•Do they select the most	•Are they confident about trying out new and different ideas?	•Do they use the most appropriate materials? •Can they work accurately to make cuts and holes? •Can they join materials?	•How have they attempted to make their product strong? •Can they measure carefully so as to make sur they have not made mistakes?	

Developing, planning and communicating ideas	components to make quality products	Evaluating processes and products
 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 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 use equipment and tools accurately? •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?	 •What did they change which made their design even better? •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?

		Design and Technolo	gy Year 5 and 6 Cycle		
Autu	mn	Spring		Summer	
Design and build a Viking longboat that floats and can carry cargo (A)	Design and make a model which includes at least 1 light up component controlled by a switch (B)		Cooking and Nutrition (B)	Moving Toys (A)	Design and make a product from recycled materials (B)
How have they ensured that their product is strong and fit for purpose? Can they work within a budget? Are their measurements accurate enough to ensure that everything is precise? Can they justify why they selected specific materials? How have they ensured that their work is precise and accurate? Can they hide joints so as to improve the look of their product?	•Can they incorporate of switch into their product? •Can they incorporate hydraulics and pneumatics? •Can they use different kinds of circuits in their product? •Can they think of way in which adding a circuit would improve their product? •Can they refine their product after testing it?	right ingredients for a product? •Can they explain how their product should be stored with reasons? •Can they set out to grow their own products with a view to making a salad, taking account of time required to grow different foods? •Can they make sure that their product looks	•Can they describe how their combined ingredients come together? •Can they describe what they do to be both hygienic and safe? •How have they presented their product well?	•Can they incorporate hydraulics and pneumatics? •Can they make up a prototype first? •Can they use a range of joining techniques? •Have they given considered thought about what would improve their product even more?	 Did they consider the use of the product when selecting materials? Does their product meet all design criteria? Are they motivated enough to refine and improve their product? Do they persevere through different stages of the making process?
Developing, planning and communicating ideas		Working with tools, equipment, materials and components to make quality products		Evaluating processes and products	
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 use a range of information to inform their		•Can they explain why their to be of good quality? •Can they explain how their the audience? •Can they use a range of tool by? •Can they use tools and materia they change the way they a	product will appeal to s and equipment expert- uls precisely? ure working if needed?	can be? •Do they check whether ar •Can they evaluate appear the original criteria? •How well do they test and e •Is it fit for purpose? •What would improve it? •Would different resources ha	