



Design and Technology – KS1
Progression of Knowledge and Skills



	<u>EYFS2</u>			<u>Year 1</u>			<u>Year 2</u>		
Term	Autumn	Spring	Summer	Autumn	Spring	Summer	Autumn	Spring	Summer
Topic	Marvellous Me Once Upon a Time	On the go Ready Steady Grow!	Near and Far All Creatures Great and Small	Marvellous Me Once Upon a Time	On the go Ready Steady Grow!	Near and Far All Creatures Great and Small	Homes and Habitats Bright Lights, Big City	Where in the world You're Bananas!	Superheroes From Pit to Port
DT overview	Pupils should be taught to: <ul style="list-style-type: none"> - Explore, use and refine a variety of artistic effects to express their ideas and feelings. - Create collaboratively sharing ideas, resources and skills. - Return to and build on their previous learning, refining ideas and developing their ability to represent them. - Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. - Share their creations, explaining the process they have used. 			Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in a process of designing and making. They should work in a range of relevant contexts (eg the home and school, gardens and playgrounds, the local community, industry and the wider environment).					
Design	Autumn 1: Art Link Autumn 2: Once Upon a Time: Make a bridge for the Three Billy Goats Gruff. Children to make bridges for the three billy goats gruff. Talk about materials you would need, how big the bridge will be, how will it stay together. How can you make it strong? Children to draw a design of their bridge. Diwali pots – Extra Curricular Children to look at a range of Diwali Lamps, talk about shape, size, style and colours. Children to design their own Diwali lamp, giving reasons for their choices.	Spring 1: On the go: Make a fruit kabab. Children to make a fruit kabab. Children to think about and learn about the ingredients needed in a fruit kabab. Children Look at and discuss colours they see. Can they name the colours? Talk about where to buy the fruit, where it comes from, how it is grown etc. Spring 2: Art Link	Summer 1: Art Link Summer 2: All Creatures Great and Small. Puppets linked to monkey puzzle Children to make a puppet. Think about and discuss characters in the story Monkey puzzle. Talk about how they could make a puppet. This could be a sock puppet or a stick puppet. Link to children's interests.	Autumn 1 – Art Link Autumn 2 – Once Upon a Time: Building Bridges Children will design their own bridge using a range of materials and making a simple plan. Children will have to consider how their bridge will work and the weight that it will need to hold. They will need to make decisions considering the materials and then make a simple plan for their design. Children will explain how they want to make their bridge and suggest the materials that they will need. Diwali pots - Extra Curricular Children to look at a range of Diwali pots and discuss their shape, size and the colours/patterns used on the lamps. Talk about the materials you could use, which would be strong? Which could you decorate? Which material is traditionally used? Children to design their own lamps, thinking about colours and patterns.	Spring 1: On the go Food Technology: Fruit kebabs Children will use a recipe to select ingredients and Resources needed to make fruit kababs. Children will talk about and discuss the colours in the fruits and decide which are best to use and give reasons. Spring 2: Art Link	Summer 1: Art Link Summer 2: All Creatures Great and Small Moving pictures. Children will design their own pop-up picture linked to the topic. They will have to consider how their picture will work using levers/ a pop-up design and make a simple plan for their design. Children will explain how they want to make their picture and suggest the resources, tools and materials that they will need.	Autumn 1- Art Link Autumn 2 – Bright Lights, Big City. Design and make Christmas decorations Children to draw their designs for their Christmas decoration. Children to think about patterns, shape and size. Children to think about what they would like to design and why.	Spring 1: Art Link Spring 2- You're Bananas! Textiles Children to make a bag for Jack's coins linked to their T4W story Jack and the Beanstalk. Children to design their product thinking about the materials they will use, giving reasons for their choices. Look at the different stitches, e.g. running stitch or cross stitch to join materials together. Talk about materials, colours and patterns used.	Summer 1: Superheroes Superhero vehicle Children will think of their own idea for a vehicle for a superhero. This could be a land or air vehicle. Children will have to consider how their vehicle will work and make a plan for their design. As children create they will plan what to do next, thinking critically. Children will explain how they want to make their vehicle and justify the reasons for choosing materials. Summer 2: From Pit to Port Making two healthy sandwiches. Children to design two sandwiches and think about how they would need to be made. Children to think about all the resources needed, building on previous knowledge of cooking. Children to think about the steps needed to create their sandwiches. Children to make a recipe card to follow when making their sandwiches.
Make	Autumn 1: Art Link Autumn 2: Once Upon a Time: Building Bridges Children will safely use and explore a range of tools and techniques,	Spring 1: On the go: Make a fruit kabab. Food Technology Children will create collaboratively sharing ideas, resources and skills.	Summer 1: Art Link Summer 2: All Creatures Great and Small. Puppets linked to monkey puzzle	Autumn 1: Art Link Autumn 2 – Once Upon a Time: Building Bridges Children will make their bridge using a range of	Spring 1: On the go Food Technology: Fruit kebabs Children will make fruit kebabs. They will explore which food are fruits and how to safely	Summer 1: Art Link Summer 2: All Creatures Great and Small Moving pictures.	Autumn 1- Art Link Autumn 2 – Bright Lights, Big City. Design and make Christmas decorations Children to use	Spring 1- Art Link Spring 2 - You're Bananas! Children to create their purses for Jacks coins. Think about the materials and strength of the materials.	Summer 1: Superheroes Children will make their designed vehicle using a range of appropriate materials and tools. They will combine and



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	<p>experimenting with colour, design and texture, form and function. Children to discuss materials, thinking about texture, strength and discuss how the materials will be held together. Children to choose strong materials. Give reasons for their choices.</p> <p>Diwali Lamps - Extra curricular Children will create collaboratively sharing ideas, resources and skills. Talking about what they have made and why and exploring texture.</p>	Spring 2: Art Link	<p>Children will think about how best to join their materials and explore a range of techniques to achieve their outcome. They will use tape, simple stitching or threading materials. Children to think about the features on their puppet e.g. body, head, tails etc...</p>	<p>appropriate materials and tools. They will ensure that their bridge can bear weight and consider any adaptations to improve their bridge and it's strength.</p> <p>Diwali pots Children to Create their lamps following their design. Talk about their lamp and how they could shape it, how could they make it stronger? Following patterns children to paint their lamps.</p>	<p>chop fruits. Talk about how best to arrange the kababs (patterns)</p> <p>Spring 2: Art Link</p>	<p>Children will make their moving pictures, incorporating levers to make their picture pop-up. They will join and combine materials to achieve their planned design.</p>	<p>a range of materials to create their designs. Children draw upon previous knowledge to create their Christmas crafts. Thinking about ways we can join materials.</p>	<p>Children to use tools to support in making their purses, e.g. cutting materials and threading through materials.</p>	<p>join materials and components in different ways. Children will measure materials for their model. They will make necessary changes to their design as they go to ensure that their vehicle moves and works as planned.</p> <p>Summer 2: From Pit to Port Children to create two sandwiches following their designs. Children to use tools to support, thinking about how to spread, cut, slice, mixing etc... Children to experiment with the shape of their sandwiches.</p>
Evaluate	<p>Autumn 1: Art Link</p> <p>Autumn 2: Once Upon a Time: Building Bridges Children to share their creations, explaining the processes they have used. Talk about what has worked and how it could be adapted if needed. Ask someone to be the troll and see if the bridge stays up.</p> <p>Diwali Lamps - Extra curricular Children will return to and build on their previous learning. Refining ideas and developing their ability to represent them.</p>	<p>Spring 1: On the go: Make a fruit kabab. Food Technology Children to talk about and discuss how their fruit salad tasted and what they like/dislike</p> <p>Spring 2: Art Link</p>	<p>Summer 1: Art Link</p> <p>Summer 2: All Creatures Great and Small. Puppets linked to monkey puzzle Children to talk about and think about what has worked well. Talk about the colours they have used and how they have made their puppets. Children to use their puppets to re-tell the story.</p>	<p>Autumn 1: Art Link</p> <p>Autumn 2 – Once Upon a Time: Building Bridges Children will test their bridges and evaluate how well they worked. They will strengthen their bridges and make suitable adaptations/ improvements.</p> <p>Diwali pots Children to Discuss how they found making their lamps, was it as easy as they thought? What difficulties did they encounter?</p>	<p>Spring 1: On the go Food Technology: Fruit kebabs Children will reflect on the process and the outcome of their fruit kababs. They will talk about what worked well and what they would change next time.</p> <p>Spring 2: Art Link</p>	<p>Summer 1: Art Link</p> <p>Summer 2: All Creatures Great and Small Moving pictures. Children will test their pictures and evaluate how well their pictures worked, making adaptations to fix/ improve them if needed.</p>	<p>Autumn 1 - Art Link</p> <p>Autumn 2 – Bright Lights, Big City. Design and make Christmas decorations Children to talk with a partner about their designs and their decoration. What would they change next time, if anything? Children to evaluate the work of others.</p>	<p>Spring 1 – Art Link</p> <p>Spring 2 - You're Bananas! The children will evaluate their design making adjustments and adaptations as they go, knowing what they need to do next. Children to continue to evaluate the work of others.</p>	<p>Summer 1: Superheroes Children will test their vehicles and evaluate how well their vehicle worked. They will explain what went well and suggest improvements or adaptations that could be made.</p> <p>Summer 2: From Pit to Port Children to look at and evaluate their sandwiches thinking about which looks the nicest, taste testing, which tastes the nicest. Which would keep you fuller for longer, which would keep the longest. How well will they store in a lunch bag at sea etc...</p>
Technical knowledge	<p>Autumn 1: Art Link</p> <p>Autumn 2: Once Upon a Time: Building Bridges: Children will learn about textures and materials, talking about using specific materials for strength e.g. exploring the strength of plastics, card, paper. Talk about materials we could use to hold the bridges together, glue, tape which is strongest?</p> <p>Diwali Lamps Children will learn how to shape the clay. Children will learn which tools to use to create different textures.</p>	<p>Spring 1: On the go: Make a fruit kabab. Food Technology Children to talk about how to safely cut the fruit. Children to talk about the textures and smells of the fruit Children will know how to cut safely, focus on how to hold a knife</p> <p>Spring 2: Art Link</p>	<p>Summer 1: Art Link</p> <p>Summer 2: All Creatures Great and Small. Puppets linked to monkey puzzle Children to know how to combine materials using glue and tape. Children to think about shapes and patterns when creating their puppets,</p>	<p>Autumn 1: Art Link</p> <p>Autumn 2 – Once Upon a Time: Building Bridges Children will be able to talk about the resources that they need and the strength of their materials. They will need to know which materials are suitable. Children will be able to evaluate how well their bridge worked and suggest improvements.</p> <p>Diwali pots Children to talk about how to shape clay. Look at tools they could use to support. Children to look at patterns. Children to learn why we make Diwali lamps and their purpose.</p>	<p>Spring 1: On the go Food Technology: Fruit kebabs Children will need to know about which food are fruits. How fruits are grown. They will need to know how to follow a recipe. Children will learn about where food comes from.</p> <p>Spring 2: Art Link</p>	<p>Summer 1: Art Link</p> <p>Summer 2: All Creatures Great and Small Moving pictures. Children will be able to talk about the resources that they need to make their picture work. They will need to know which materials are suitable and which resources will be needed to create their picture and to make their picture pop-up and move. Children will be able to evaluate how well their picture worked and suggest improvements.</p>	<p>Autumn 1 - Art Link</p> <p>Autumn 2 – Bright Lights, Big City. Design and make Christmas decorations Children to look at materials for purposes – weight of materials, how fragile materials are. How they would hang the decorations, whether they could stand, best material to use.</p>	<p>Spring 1 - Art Link</p> <p>Spring 2 - You're Bananas! They will need to know the purpose of their purse and how it will need to be strong and take this into consideration when thinking about materials, size and design. They will explore techniques such as cutting, shaping, joining and finishing to create their textile artwork.</p>	<p>Summer 1: Superheroes Children will be able to talk about the resources that they need to make their vehicle work and why. They will need to be able to talk about which materials are suitable and why they have chosen certain textiles. E.g. the shape and size of the wheels. Children will be able to evaluate what went well and how well their vehicle worked and suggest improvements. Use their mathematical skills to measure the materials that they need.</p> <p>Summer 2: From Pit to Port Children to draw on previous knowledge to safely cut, slice and shape their sandwiches. Children to learn food safety skill sby safely cleaning up and washing their dishes. Also, by ensuring their workspace is</p>



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									personal to them and not shared. Children to look at where food comes from and how it is made/produced.
	In addition, over the course of the year Home Learning Projects will be set linked to Art and DT focused on topics.								
Impact/key assessment criteria:	Through the above topics, knowledge and skills an EYFS designer will: <ul style="list-style-type: none">- Cut food safely- Know how to prepare food hygienically-			Through the above topics, knowledge and skills a Year 1 designer will: <ul style="list-style-type: none">- Use their own ideas to make something- Describe how something works- Cut food safely- Make a product which moves- Make their model stronger- Explain to someone else how they want to make their product- Choose appropriate resources and tools- Make a simple plan before making			Through the above topics, knowledge and skills a Year 2 designer will: <ul style="list-style-type: none">- Think of an idea and plan what to do next- Choose tools and materials and explain why they have chosen them- Join materials and components in different ways- Explain what went well with their work- Explain why they have chosen specific textiles- Measure materials to use in a model or structure- Describe the ingredients they are using		