Design and Technology

	1	2	3	4	5
	Time Travel	Planet Earth	Heroes and Villains	What's in the News?	Food for Th
EY	Celebrations Adult Focussed Activity: Cutting Overview: Building on cutting skills developed through Autumn 1, the children will focus on cutting different shapes and along different lines (both curved and straight) with increasing control and precision. They will continue to practise using scissors safely and accurately. Continuous Provision: Various cutting activities linked to celebrations will be found within the creative areas in the classroom.		Down on the Farm Adult Focussed Activity: 3D Work Overview: The children will work towards making animal puppets to retell a story. Continuous Provision: The children will have access to a variety of materials and tools within their creative areas so that they can practise their cutting and joining techniques.		Adult Focussed Activity: Tex Overview: The children will Continuous Provision: The o their creative areas. They wi
1/2	Hidden Habita Focus: Construction Overview: The children will construct bug hotels of an adult to cut wood safely. They will practise making the elements to go inside their bug hotel Links to prior learning: The children will have pri- Early Years, mainly working with paper and card. start to work with wood.	, using a saw and bench hook with the support tearing, cutting, folding and curling when S. actised cutting and joining techniques in the	Save the Rainforests: Making a Stuffed Toy Animal Focus: Sewing Overview: The children will practise their sewing skills during this unit of work. They will begin by cutting out their fabric, within a centimetre of the edge of the template, before using running stitch to join their fabric. The final outcome will be a stuffed toy rainforest animal. Links to prior learning: The children will have previously practised their sewing and weaving skills during the Early Years. Addition opportunities for practising the running stitch take place in KS1 during Cycle B, when the children make their own section of a patchwork quilt.		Focus: Food Technology Overview: During this them safely and hygienically. They and/or electronic scales. Wi delicious pasta sauce. Links to prior learning: Thro involving healthy eating. In a cooking skills in KS1 during O
3/4	Up in Smoke: Erupting VolcanoesFocus: ConstructionOverview: During this theme, the children will design and make an erupting volcano. When designing their product, they will create annotated sketches with cross-sectional diagrams. To make the outer cone for the volcano, the children will learn how to use a safety scalpel to cut along a line accurately and neatly. They will also learn how to join two sides of cards together by making a slit and a tab.Links to prior learning: The main skills learned during this unit of work are preceded by the skills learned when making pop-up cards in KS1. In KS1, the children will have been practising their accurate cutting and joining skills. Further opportunities to develop cutting skills take place in LKS2 when the children make snapping crocodiles.		Our City: Making an Anderson Shelter Focus: Construction Overview: During this unit of work, the children will design and make an Anderson shelter, linking to their history unit from last half term and their geography unit from this half term. The children will produce annotated sketches with cross-sectional diagrams whilst planning their design. They will create their Anderson shelters from wood, building on the woodwork skills that they learned in Key Stage One. In addition to this, the children will apply their knowledge of electrical circuits to add a light to their shelter. Designer: Thomas Edison (Lightbulb Designer) Links to prior learning: The children will have previously cut and joined wood when making bug hotels in KS1. Skills are also built upon during the design unit. The children learned about cross- sectional diagrams in the previous term.		Che Focus: Food Technology Overview: This half term, th extend their learning from K scales to weigh out their ing and they'll learn how to safe Links to prior learning: In KS with support. They will be al when boiling water to melt t during their maths lessons. I 5 and 10. In LKS2, they read
5/6	Disaster! Designing an Earthquake-Proof Bridge Focus: Construction Overview: Building on learning from Key Stage One and Lower Key Stage Two, the children will continue to develop their woodwork skills. Whilst designing an earthquake-proof structure, such as a bridge, the children will learn how to use a mitre block to safely cut wood at an angle. They will measure and mark out their wood using protractors. Designer: Robert Stephenson (Bridge Designer) Links to prior learning: In Y3/4, when designing an Andersen Shelter, the children were introduced to how triangles are used for strength. The children also practised woodwork skills during this LKS2 unit. Learning how to cut wood at an angle, using a mitre block, is new learning in Y5/6. There is a further opportunity to practise this skill in Cycle B.		Our Changing World: Designing an Eco House Focus: Construction Overview: During this unit of work, the children will refine their design skills, creating annotated sketches and exploded diagrams when planning their own eco house. They will practise the accuracy of their cutting and measuring skills when creating nets to use to construct their houses. They will also apply their knowledge of electrical circuits when adding lightbulbs and a doorbell to their buildings. Links to prior learning: In Y3/4, the children learned how to create annotated sketches and cross-sectional diagrams. Creating exploded diagrams is new learning for the children in Y5/6. In Y3/4, the children learned how to use a safety scalpel to cut slits and tabs, so this learning can be re-applied during this unit of work.		The Great S Focus: Food Technology Overview: The children will together their own ingrediet snap! Links to prior learning: In KS support. In LKS2, the childre theme as the children will le mixture doesn't crystalise!



Thought

Incredible Humans

6

Get Growing

Textiles and Materials

will practise their weaving skills, using natural and man-made materials.

he children will have access to different materials and textiles within will be able to explore the use of different materials.

Take me to Italy: Cooking a Pasta Sauce

neme, the children will learn how to cut, peel and grate ingredients They will practise measuring out ingredients using measuring cups . With the help of an adult, they will sauté their ingredients to make a

Throughout the Early Years, the children will have taken part in work . In addition to this unit of work, the children will also practise their ing Cycle B, when they make a healthy pizza.

Chocolate – Is It Worth It? Making Chocolates

n, the children will make their own mini bar of chocolate. They will m Key Stage One, moving from the use of digital scales to analogue ringredients. The children will practise following steps from a recipe, safely melt chocolate by using a saucepan to simmer water.

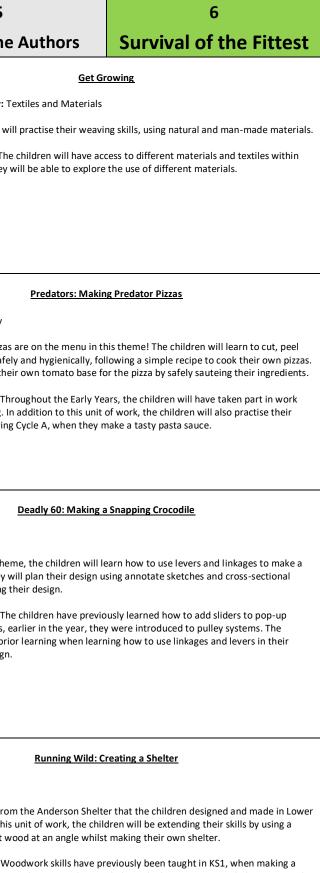
In KS1, the children learned how to safely sauté ingredients in a pan, be able to recap the safety information that they learned during KS1 helt the chocolate. The children will also have studied how to read scales ins. In KS1, they will have learned how to read scales in increments of 2, ead scales in 25s.

at Southcoates Bake Off: Making Hull Fair Brandy Snap

will be learning how to prepare for following a recipe, gathering edients and utensils, before making their own Hull Fair themed brandy

In KS1, the children learned how to safely sauté ingredients, with Idren learned how to safely boil water. Their learning is extended in this ill learn how to dissolve butter and sugar safely, ensuring that the se!

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	Kings and Queens	A Drop in the Ocean	A Stitch in Time	A Helping Hand	Battle of the
EY 1/2	Celebrations Adult Focussed Activity: Cutting Overview: Building on cutting skills developed through Autumn 1, the children will focus on cutting different shapes and along different lines (both curved and straight) with increasing control and precision. They will continue to practise using scissors safely and accurately. Continuous Provision: Various cutting activities linked to celebrations will be found within the creative areas in the classroom. Penguin Parade: Pop-Up and Moving Cards Focus: Mechanisms Overview: During this theme, the children will be making cards with moving parts, to sell at the Christmas Fairl The children will practise their measuring and cutting skills, measuring to the nearest centimetre to create a simple mechanism for their card. The children will create a slider to make a penguin move across their design. They will also practise their shaping techniques, using tearing, folding and curling to create different elements for their cards. Links to prior learning: The children will have practised cutting and joining techniques in the Early Years, mainly working with paper and card. This unit extends the children's knowledge as		Down on the Farm Adult Focussed Activity: 3D Work Overview: The children will work towards making animal puppets to retell a story. Continuous Provision: The children will have access to a variety of materials and tools within their creative areas so that they can practise their cutting and joining techniques. Magical Memories: Sewing a Patchwork Quilt Focus: Sewing Overview: In this theme, the children will be making a piece of a patchwork quilt. The children will engage in discussions at the planning stage, talking about the different elements that they would like to include in their design. They will then practise cutting fabric, to within a centimetre of the edge of a template, before using a running stitch to join their pieces of material together. Links to prior learning: The children will have previously practised their sewing and weaving skills during the Early Years. Addition opportunities for practising the running stitch take place		Adult Focussed Activity: Te Overview: The children wil Continuous Provision: The their creative areas. They v Focus: Food Technology Overview: Predator Pizzas and grate ingredients safel The children will make thei Links to prior learning: Thr involving healthy eating. In cooking skills in KS1 during
3/4	Links to prior learning: The children will have pra	Actised cutting and joining techniques in the This unit extends the children's knowledge as mechanisms. Creating a Ship's Crane Ing about how puley systems and cams can be sign and make their own crane for a ship, using w Archimedes influences the development of introduction to pulley systems. However, in s when adding sliders to their pop-up cards.			involving healthy eating. In
5/6	The United in will also look at different types of mechanisms later in the year, when they make snapping crocodiles! The Journey: Creating a Cam Toy Focus: Mechanisms Overview: The children will continue to develop their design skills, using annotated sketches and exploded diagrams to design their own cam toy. During this unit of work, the children will learn about the difference between pulleys and cams. They will decide how to make their vehicle move, considering the use of mechanical and electrical systems. Links to prior learning: Previous D&T learning in Y3/4 introduced the children to pulleys, linkages and levers. Learning about cams is new learning for the children in Y5/6.		Shakespeare: Creating an Elizabethan Costume Accessories Focus: Sewing Overview: The children will continue to develop their sewing skills during this theme, whilst making their own Elizabethan costume accessory. The children will carefully consider how to create a professional looking finish for their design, learning how to use layers to stiffen their fabric and how to use a blanket stitch for a neat edge. Links to prior learning: In KS1, the children learned how to use the running stitch. In Y3/4, they were introduced to the backstitch. They also practised threading their own needle. Learning the blanket stitch and how to tie a knot is new learning for the children this year.		Focus: Construction Overview: Building on from Key Stage Two, during this mitre block to safely cut we Links to prior learning: Wo bug hotel, and LKS2, when children learn how to use a



ten making an Andersen Shelter. The learning is extended in UKS2 as the se a mitre block to cut wood at an angle.