

Design and Technology Yearly Overview EYFS and KS1

Bramley Infant and Nursery continue to review and reflect upon content and context of topics in light of equality, diversity and inclusion. Significant local, national and international events will also be explored as appropriate e.g. coronations

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	<p>Throughout the year children are supported to develop the following skills:</p> <ul style="list-style-type: none"> Using 3D and 2D structures to explore materials and/or to express ideas. Using everyday materials to explore, understand and represents their world- their ideas, interests and fascinations Operates mechanical toys, e.g. turns the knob on a wind-up toy or pulls back on a friction car Plays with water to investigate "low technology" such as washing and cleaning Uses pipes, funnels and other tools to carry/ transport water from one place to another Notices and becomes interested in the transformative effect of their action on materials and resources Experiments with ways to enclose a space, create shapes and represent actions, sounds and objects <p>Adults join children in their play and respond to the children's interests, modelling key vocabulary and techniques. The provision is updated in response to children's interests and next steps. Adult-led activities provide opportunities for children to be introduced to new skills. See below for examples of activities that may be delivered at different points in the year.</p>					
	Topic: Autumn	Topic: Light and Dark and Christmas Diwali- clay divi pots.	Topic: Nursery Rhymes Making jam tarts	Topic: New life and Easter	Topic: Friends and family	Topic: Courage
Pre-School	<ul style="list-style-type: none"> Plays with a range of materials to learn cause and effect, Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images Experiments with ways to enclose a space, create shapes and represent actions, sounds and objects Using 3D and 2D structures to explore materials and/or to express ideas. Develops an understanding of using lines to enclose a space, and begins to use drawing to represent actions and objects based on imagination, observation and experience Uses various construction materials, e.g. joining pieces, stacking vertically and horizontally, balancing, making enclosures and creating spaces Uses tools for a purpose Notices what other children and adults do, mirroring what is observed, adding variations 					
	Topic: Year 1-All about me Year 2-All about me Constructing using a variety of materials. Explore joining and sticking different materials together with the support of an adult.	Topic: Year 1-Autumn and celebrations Year 2-Autumn and celebrations Explore using different painting tools- brushes of different sizes, palettes, paint, sponges, water. Constructing using a variety of materials. Explore joining and sticking different materials together.	Topic: Year 1-Winter and superheroes Year 2-Traditional tales Constructing using a variety of materials. Using available resources to create props to support play. Beginning to select resources independently.	Topic: Year 1-Superheroes and Spring Year 2-Under the sea Using tools for a purpose. Children are beginning to think about what they want to create, the processes that may be involved and the materials and resources they may need. Constructing using a variety of materials. Using available resources to create props to support play.	Topic: Year 1-The great outdoors Year 2-Farms and farm animals Using tools for a purpose. Children are beginning to think about what they want to create, the processes that may be involved and the materials and resources they may need. Constructing using a variety of materials. Using available resources to create props to support play.	Topic: Year 1-Amazing animals Year 2-Minibeasts Using tools for a purpose. Children can think about what they want to create, the processes that may be involved and the materials and resources they may need. Using available resources to create props to support imaginative play, both independently and with their peers. Constructing imaginatively using a variety of materials.
Reception	<ul style="list-style-type: none"> Uses their increasing knowledge and understanding of tools and materials to explore their interests and enquiries and develop their thinking Develops their own ideas through experimentation with diverse materials, e.g. light, projected image, loose parts, watercolours, powder paint, to express and communicate their discoveries and understanding. Expresses and communicates working theories, 					
	Topic: Autumn	Topic: Light and Dark	Topic: Storytelling	Topic: Storytelling	Topic: Not a Box Children will develop their ability to create different	Topic: Pirates

				<p>Possible adult-led activities could include:</p> <ul style="list-style-type: none"> • Using loose parts to represent monsters. • Junk modelling monster home- applying learning about choosing and joining materials, use of tools. • Using 3D shape blocks- reinforcing maths learning. 	<p>props and then make use of these when engaged in roleplay.</p> <p>Children will become more confident justifying their choices and talking about how they could improve their design and technology work.</p>	<p>Possible adult-led activities could include:</p> <ul style="list-style-type: none"> • Creating pirate props e.g. telescope
Year One	<p>Topic: Here we are</p> <p>Identify and make flaps and sliders</p> <p>Design, make and evaluate Christmas card</p>	<p>Topic: Terrific Toys</p> <p>Use knowledge of lever and sliders to create traction man with moving parts</p> <p>Create sewing sampling, using a range of stiches, running, diagonal, cross</p>			<p>Out and about</p> <p>Design, make and evaluate structure using construction kits, and link to den building in forest school.</p> <p>Plan and create a potato salad using potatoes grown at school.</p>	
Year Two	<p>Topic: Castle Keepers</p> <p>Design, make and evaluate a model of a castle.</p> <p>Design, make and evaluate Christmas card using paper sculpting techniques.</p> <p>Design and make a Christmas themed biscuit.</p>	<p>Topic: World wonderers</p> <p>Assemble felt finger puppets using a combination of sewing and glue joins</p> <p>Create a model of The Great Wall of China.</p> <p>Design, make and evaluate an Easter garden.</p> <p>Prepare a healthy fruit salad.</p>			<p>Topic: Change Champions</p> <p>Design, make and test a glider and a parachute.</p> <p>Produce a wheel using simple resources.</p> <p>Design a rocket or space station.</p> <p>Design a new technology that improves a way of modern life.</p> <p>Understand and evaluate key events and technology in transport and inventions.</p> <p>Design, create and evaluate clay pencil holders</p> <p>Understand where some specific food comes e.g. pizza and its origins.</p> <p>Make a simple pizza, using fresh ingredients and a step-by-step recipe.</p>	