

Pippins Primary School Curriculum Overview



Subject: D.T.

	Autumn 1	Spring 1	Summer 1
ייפטר ד	Topic: Shade and Shelter Concept: Investigating shelters Skills and knowledge Construct simple structures, models or other products using a range of materials. Create a design to meet simple design criteria. Describe the similarities and differences between two products. Follow the rules to keep safe during a practical task. Name and explore a range of everyday products and describe how they are used. Select and use a range of materials, beginning to explain their choices. Talk about their own and each other's work, identifying strengths or weaknesses and offering support.	Topic: Taxi Concept: Investigating wheels, axles and chassis Skills and Knowledge • Create a design to meet simple design criteria. • Describe the similarities and differences between two products. • Name and explore a range of everyday products and describe how they are used. • Talk about their own and each other's work, identifying strengths or weaknesses and offering support. • Use wheels and axles to make a simple moving model.	Topic: Chop, Slice and Mash Concept: Investigating sources of food Skills and Knowledge Create a design to meet simple design criteria. Follow the rules to keep safe during a practical task. Measure and weigh food items using nonstandard measures, such as spoons and cups. Select healthy ingredients for a fruit or vegetable salad. Sort foods into groups by whether they are from an animal or plant source. Talk about their own and each other's work, identifying strengths or weaknesses and offering support. Explain why hand washing and cleanliness are important.
	Outcomes: To construct simple structures or model made from a range of materials.	Outcomes: To use wheels and axles to make a simple moving model.	Outcomes: To design and make salads and sandwiches

Spring 1

Autumn 1

Summer 1

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Autumn 1	Spring 1	Summer 1
Topic: Cook and eat well Concept: Healthy balanced diets.	Topic: Making it move Concept: Machines and mechanisms.	Topic: Greenhouse Concept: Greenhouse design.
 Skills and Knowledge Describe how key events in design and technology have shaped the world. Develop design criteria to inform a design. Identify and name foods that are produced in different places. Identify the main food groups (carbohydrates, protein, dairy, fruits and vegetables, fats and sugars). Prepare and cook a simple savoury dish. Suggest improvements to their products and describe how to implement them, beginning to take the views of others into account. Use appliances safely with adult supervision. Explain the importance and characteristics of a healthy, balanced diet. 	 Skills and Knowledge Develop design criteria to inform a design. Explain how an existing product benefits the user. Explore and use a range of mechanisms (levers, sliders, axles, wheels and cams) in models or products. Plan which materials will be needed for a task and explain why. Suggest improvements to their products and describe how to implement them, beginning to take the views of others into account. Use tools safely for cutting and joining materials and components. Make working models with simple mechanisms or electrical circuits. 	 Skills and Knowledge Create shell or frame structures using diagonal struts to strengthen them. Develop design criteria to inform a design. Explain how an existing product benefits the user. Explain the similarities and difference between the works of two designers. Plan which materials will be needed for a task and explain why. Suggest improvements to their products and describe how to implement them, beginning to take the views of others into account. Use tools safely for cutting and joining materials and components. Compare artists, architects and designers and identify significant characteristics of the same style of artwork, structures and products through time.
Outcomes:	Outcomes:	Outcomes:
To prepare and cook a simple savoury dish.	To design and make an automaton toy.	To design and construct a mini greenhouse.

	Autumn 1	Spring 1	Summer 1
	Topic:	Topic:	Topic:
	Warp and weft	Functional fancy fabrics	Tomb builders
	Concept: Textiles through time	Concept: Exploring fabrics	Concept: Identifying simple machines
Year 4	 Skills and Knowledge Compare and contrast artwork from different times and cultures. Develop techniques through experimentation to create different types of art. Give constructive feedback to others about ways to improve a piece of artwork. Choose from a range of materials, showing an understanding of their different characteristics. 	 Skills and Knowledge Choose from a range of materials, showing an understanding of their different characteristics. Create and complete a comparison table to compare two or more products. Create detailed decorative patterns on fabric using printing techniques. Explain how and why a significant designer or inventor shaped the world. Hand sew a hem or seam using a running stitch. Identify what has worked well and what aspects of their products could be improved, acting on their own suggestions and those of others when making improvements. Investigate and identify the design features of a familiar product. Select name and use tools with supervision. Use annotated sketches and exploded diagrams to test and communicate their ideas. Represent the detailed patterns found in natural phenomena, such as water, weather or animal skins. Use a range of stitches to add detail and texture to fabric or mixed media collages. 	 Choose from a range of materials, showing an understanding of their different characteristics. Explore and use a range of mechanisms (levers, axles, cams, gears and pulleys) in models or products. Identify what has worked well and what aspects of their products could be improved, acting on their own suggestions and those of others when making improvements.
	Outcomes:	Outcomes:	Outcomes:
	To weave a wall hanging.	To design and make a fabric sample.	To make a simple machine.

	Autumn 1	Spring 1	Summer 1
	Topic: Moving mechanisms	Topic: Eat the seasons	Topic: Architecture
	Concept: Exploring pneumatics	Concept: Seasonality	Concept: Architecture over time
Year 5	 Skills and Knowledge: Build a framework using a range of materials to support mechanisms. Explain the functionality and purpose of safety features on a range of products. Select and combine materials with precision. Survey users in a range of focus groups and compare results. Test and evaluate products against a detailed design specification and make adaptations as they develop the product. Use mechanical systems in their products, such as pneumatics. 	 Skills and Knowledge: Describe what seasonality means and explain some of the reasons why it is beneficial. Evaluate meals and consider if they contribute towards a balanced die Use an increasing range of preparation and cooking techniques. Evaluate meals and consider if they contribute towards a balanced diet. 	 Skills and Knowledge: Build a framework using a range of materials to support mechanisms Describe the social influence of a significant designer or inventor. Explain how the design of a product has been influenced by the culture or society in which it was designed or made. Select and combine materials with precision. Test and evaluate products against a detailed design specification and make adaptations as they develop the product. Use pattern pieces and computer-aided design packages to design a product. Describe and discuss how different artists and cultures have used a range of visual elements in their work.
	Outcome: To build a pneumatic machine prototype.	Outcome: To make a seasonal soup.	Outcome: To build a framework using a range of materials to show support, stiffness and stability of a structure.

Summer 1

Autumn 1