Design Technology Long Term Plan 2026-27

	Autumn	Spring	Summer
Year 1	Structures **Bridges** This unit introduces pupils to structures. It focuses on bridge building and introduces cutting, folding, and joining techniques. Pupils make their own bridges, applying their knowledge of structure design.	Cooking + nutrition **Sandwiches** Design Make Critique Evaluate	Textiles **Finger puppets** This unit develops pupils' knowledge of the characteristics of non-woven fabrics and their joining techniques. Pupils analyse the techniques used to make fabric products and then apply this knowledge by designing and making a fabric puppet.
Year 2	Mechanical systems **Sliders and levers** This unit develops pupils' knowledge of simple mechanisms. By making levers and sliders, pupils will apply their knowledge of the characteristics of paper and card to make their own moving cards.	Cooking + nutrition **Breadmaking** Design Make Critique Evaluate	Structures **Chairs** This unit develops pupils' knowledge of freestanding structures and how to make them more stable. Pupils will analyse different structures, shapes and construction techniques to make a chair for baby bear.
Year 3	Cooking + nutrition **Fruit salads** Design Make Critique Evaluate	Mechanical systems **Sunglasses** This unit introduces pupils to creating movement with air using mechanisms. They will then apply this knowledge to develop a pair of sunglasses.	Textiles **Cushions** This unit develops pupils' knowledge of joining techniques when working with woven fabrics. Pupils test and select recycled fabric for functionality. They will use templates and decorative techniques.

Year 4	Mechanical systems Pop up books This unit develops pupils' knowledge of mechanisms through levers and linkages. They will apply this knowledge by exploring mechanisms and incorporating them into an interactive book with a user-centred focus.	Cooking + nutrition Flapjacks Design Make Critique Evaluate	Structures & Electronics Pavillions This unit develops pupils' knowledge of freestanding structures and how to make them more stable. Pupils will analyse different structures, shapes and construction techniques.
Year 5	Structures (Eco) Bird feeders This unit explores the design and function and structure of bird feeders. Children will investigate the materials used for their strength and stability then design, make and evaluate their own example.	Mechanical systems & Electronics Pulleys This unit develops pupils' knowledge of mechanisms through gears and pulleys. By investigating electric vehicles and mechanical and electrical components, pupils will apply their knowledge by making an electric vehicle.	Cooking + nutrition Scones Design Make Critique Evaluate
Year 6	Structures Marble runs This unit develops pupils' knowledge and 3D joining techniques when working with different materials. Pupils apply this knowledge and understanding to make and promote a marble run.	Textiles Hanging decorations This unit introduces pupils to more complex textile products, enabling them to produce fabric patterns. Pupils will develop knowledge of fabrics and apply this by selecting them for functionality and aesthetics to design a product.	Cooking + nutrition Celebrations! Design Make Critique Evaluate