



Year 5/6 DT Medium Term Plan - Cycle B

	Autumn 2 - Food and Nutrition	Spring 2 - Structures	Summer 2 - Mechanical systems
Big Concept	 	 	 
Big Question	How do you make bread?	How far can you go?	How can I control movement with a cam mechanism?
Vision and purpose	Children will build on their skills of baking	Children will build on their knowledge of structures to create a marble run track that is strong enough to carry a marble from the top to the bottom.	Children will build on their understanding of building structures to create a mechanical toy.
Prior knowledge	- Prior knowledge of ingredients needed in bread. - Knowledge of a history of bread production. - Correct usage of utensils.	- An understanding of strong, stiff structures. - Structure of a key event involving a kite which shaped the world.	- Children are able to make lever and linkage mechanisms. - Exploration of free moving axles.
Knowledge skill	I can bake bread.	I can use different materials to create a marble run.	I can use electrical circuits to create a rotating fairground ride.
Specific vocabulary for a sequence of work	Bake, knead, mix, stir, dough, drizzle	Template, prototype, model, kinetic energy, potential energy, texture, surface	Cam, follower, mechanism, components, mechanical systems, rotary, linear, convert, motion.



Final outcome



	Bread	Marble run	Anomated animal mechanism
Cross Curricular links	Science - Irreversible changes	Science - uses of materials	Science
Resources	Variety of breads for tasting/evaluating Ingredients- flour, salt, wheat flour, rolled oats, baking powder, honey	Fabric, needs, tracing paper, cotton	Cams, doles