

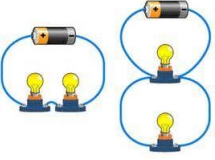
DT Knowledge Organiser – Make a marble run and cooking

In Spring Term children will be making a marble run with a challenge that it lasts exactly 10 seconds. They will apply their understanding of how to strengthen, stiffen and reinforce more complex structures and include an electrical system of lights, buzzers, motors etc. which will fit in with our science programme of study. This will cumulate in a class competition. Our cooking this term will be linked to Lincolnshire Day with children making plum bread.

Knowledge
Communicate ideas through detailed labelled drawings.
Explore, develop and communicate aspects of their design proposals by modelling their ideas in a variety of ways.
Plan the order of work, selecting appropriate materials, tools and techniques and working efficiently and safely.
Assemble components to make working prototypes before completing task.
Use temporary and permanent joining techniques.
Think about the task and make modifications as they go.
Evaluate products, identifying strengths and areas for development, and carry out appropriate tests.

Lincolnshire plum bread
Whisk ingredients together
Using digital scales
Mix to form a bread dough
Use measuring spoons
Know how and why dough requires proving.



Key vocabulary		
Bulb	Electrically powered light with a glowing filament.	
Bulb holder	Component which houses a bulb.	
Cell	A single unit that is used to power an electrical circuit.	
Design brief	A statement of what needs to be designed and made.	
Electrical current	The flow of an electrical charge through a circuit.	
Assemble	To put together.	
Switch	A device which makes or breaks a circuit.	
Series circuit	A path through which an electrical current can pass.	
Parallel circuit	More than one path through which an electrical current can pass.	
v-fold and u-fold	Folds in the shape of a 'v' or 'u' that will strengthen materials.	

