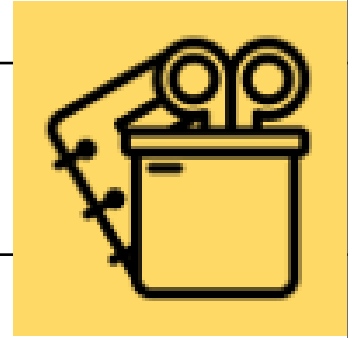




Objectives and Sticky Knowledge – Structures



Previous Knowledge Recap:

- I can use correct tools safely.
- I can identify key design features.
- I can say how my design has been successful.

Land Objectives and Sticky Knowledge:

<p>To design a playground featuring a variety of different structures, giving consideration to how the structures will be used.</p>	<p>Build a range of play apparatus structures drawing upon new and prior knowledge of structures.</p>	<p>Know how to test and evaluate designed products against clear criteria.</p>
<ul style="list-style-type: none"> - Structures that have different purposes are constructed in different ways, for example swinging structures and spinning structures. - Consider effective and ineffective designs. -A prototype is a cheap, rough version of the final product. 	<ul style="list-style-type: none"> -Measure, mark and cut wood to create a range of structures. -Use a range of materials to reinforce and add decoration to structures. -Improve a design plan based on peer evaluation. - Test and adapt a design to improve it as it is developed. - Identify what makes a successful structure. 	<ul style="list-style-type: none"> The different components move correctly. There are different mechanisms used with accuracy.

Sea:

Links with ‘Stewardship and Sustainability’:

Links with CST and CKA Values Crown:

Year 6 Design Technology Lent 1 Knowledge Organiser



Apparatus	Equipment designed for recreation and play, such as seesaws and swings.
Bench hook	A tool which hooks onto the edge of the workbench. It's used to hold woodwork still when sawing.
Coping saw	A saw with a narrow D-shaped metal blade, used for cutting curves in woods.
Dowel	Wood in the shape of a cylinder. Dowels come in all different sizes and thicknesses.
Jelutong	A type of softwood, it is lightweight, easy to cut and shape.
Mark out	To measure and mark where a piece of material needs to be cut or shaped.
Modify	To change something to improve or fix it.
Natural materials	Materials which come from nature. (e.g. wood comes from trees)
Plan view	A two-dimensional diagram used to describe a place or object from above with annotations and other details such as measurements.
Playground	An outdoor area for children to play in. They usually have different apparatus to play on such as climbing frames and slides.
Prototype	A simple model that lets you test out your idea and how it will look and work.
Reinforce	To make a structure or material stronger, especially by adding another material or element to it.
Structure	Something which stands, usually on its own.
Tenon saw	A saw with a flat blade, used for cutting wood in straight lines or angles.
User	A person that uses something.
Vice	A piece of equipment used to hold an object still while you work on it.



Sky Objectives:

1. Designing a stable structure able to support its own weight, with focus on triangulation
2. Select appropriate tools and equipment for particular tasks, using these safely and accurately e.g. saws.
3. Suggesting points for improvements for own design and those designed by others