<u>Design Technology - Structures</u>

Year 6 - Swans

Summer 2: Design a 'play' structure for our 'Forest School'.



What I should already know - How to build structures such as windmills and chairs, exploring how they can be made stronger, stiffer and more stable. Recognise areas of weakness through trial and error. How to develop KS1 exploration skills, through more complex builds such as pavilion and bridge designs. Understand material selection and learn methods to reinforce structures.

Key Vocabulary	Pupils will:
	Design play equipment for our forest school area which
<u>Adapt -</u> To change or alter something to fit a given purpose, or to	features a variety of different structures, giving
improve it.	careful consideration to how the structures will be
<u>Annotate - To add notes which explain a plan or design.</u>	used, considering effective and ineffective designs.
<u>Cladding - a covering of tiles, wooden boards, or other material that is</u>	
fixed to the outside of a building to protect it against bad weather or	Make
to make it look more attractive.	Build a range of structures drawing upon new and prior
Design criteria - the precise goals that a project must achieve in	knowledge.
order to be successful.	Measure, mark and saw wood to create a range of
<u>Footprint plan -</u>	structures.
Forest school - an outdoor environment where children can explore	Use knots to secure wooden poles in place.
the natural environment and learn in it.	
Knot - A join made by tying two pieces of string or rope together.	Evaluate
<u>Prototype -</u>	Improve a design plan based on peer evaluation.
Silver Birch - a tree with a greyish-white trunk and branches.	Test and adapt a design to improve it as it is
<u>Target audience -</u> A particular group of people who the product is	developed.
aimed at.	
Target customer - A particular type of person who the product is	Technical Knowledge
aimed at.	To know that structures can be strengthened by
<u>Weave</u> - to make by interlacing twigs, straw, rush, wicker, etc	manipulating materials and shapes.
Willow - a tree or bush that has narrow leaves. The long twigs of	To understand what a 'footprint plan' is.
willows bend easily and are used in weaving baskets and making	• To understand that in the real world, design , can
furniture.	impact users in positive and
	negative ways.
	• To know that a prototype is a cheap model to test a
	design idea.
	Adapt - To change or alter something to fit a given purpose, or to improve it. Annotate - To add notes which explain a plan or design. Cladding - a covering of tiles, wooden boards, or other material that is fixed to the outside of a building to protect it against bad weather or to make it look more attractive. Design criteria - the precise goals that a project must achieve in order to be successful. Footprint plan - Forest school - an outdoor environment where children can explore the natural environment and learn in it. Knot - A join made by tying two pieces of string or rope together. Prototype - Silver Birch - a tree with a greyish-white trunk and branches. Target audience - A particular group of people who the product is aimed at. Weave - to make by interlacing twigs, straw, rush, wicker, etc Willow - a tree or bush that has narrow leaves. The long twigs of willows bend easily and are used in weaving baskets and making

