


Knowledge Organiser

Year: 2

Subject: Design & Technology

Unit: Stable Structures

Overview		
Children will be learning about structures. They will be looking at what makes a structure strong, stable etc. Children will design and build their own structure. They will evaluate how successful they have been.		
What should I already know?	Vocabulary:	
<p>Design</p> <ul style="list-style-type: none"> Can identify the key features of an existing product Can make a plan of an existing product and label it Can generate ideas for different ways of strengthening models to make them sturdy Can say whether their models are strong or not. Can make a labelled plan of their design and list the tools and materials they need. <p>Make</p> <ul style="list-style-type: none"> Can cut out using scissors Can follow a design to make a piece of playground equipment Can join materials together to make a sturdy structure <p>Working with tools</p> <ul style="list-style-type: none"> Join two pieces of paper/card together with glue and tape Can select appropriate and tools and use them safely <p>Evaluate</p> <ul style="list-style-type: none"> Can identify what has gone well with their product. Can say how they could improve their work Say what they like and feel about their own work Can say what they like about others' work and give them positive feedback (I like.....about your product) <p>Technical Knowledge</p> <ul style="list-style-type: none"> Know that to make a structure more stable it needs reinforcing e.g., more tape to hold it together 	<p>construct</p> <p>investigate</p> <p>design</p> <p>evaluate</p> <p>communicate</p> <p>man-made</p> <p>natural resource</p> <p>strengthen</p> <p>stability</p> <p>Stiffer</p>	<p>to build something</p> <p>to find out information about something</p> <p>a set of instructions to make a product</p> <p>to make a judgement</p> <p>to share thoughts and ideas using drawings, speech and words</p> <p>made by items that are not natural</p> <p>resources which are used from the planet, i.e. wood, coal, gas</p> <p>to make stronger</p> <p>to stand without being able to fall over</p> <p>not easily bent or changed in shape</p>
What will I know by the end of the unit?		

<p>Design</p> <ul style="list-style-type: none"> • Can evaluate an existing product by saying <ul style="list-style-type: none"> ○ How it is useful ○ How it works ○ Whether they like it and why. • Can make a plan for a structure that is stable • Can investigate how materials can be made stronger e.g., folding, layering and rolling paper and card and testing them for strength • Can communicate their ideas and plan by describing them to someone else • Can state the purpose of their design • Can select the appropriate materials and explain their choices <p>Make</p> <ul style="list-style-type: none"> • Can join, fold or roll to make a structure stronger • Can follow a design plan • Can fold, roll and layer to make a sturdy structure • Can make a (toy) garage that is stable <p>Working with tools</p> <ul style="list-style-type: none"> • Can join card and paper using glue and selloptape. • Can use tools such as scissors, glue spreaders, tape dispensers accurately <p>Evaluate</p> <ul style="list-style-type: none"> • Can use like and dislike when evaluating their garage • Can recognise what they have done well and talk about what could be improved • Can assess how well their product works • Predict how changes will improve the finished product <p>Technical Knowledge</p> <ul style="list-style-type: none"> • Know that materials have different properties including rigidity, flexibility, length, width, thickness • Know that to make a structure more stable it can be reinforced through rolling, folding, layering, gluing and taping 	<p>properties</p>	<p>A thing or things that make up a specific product</p> 
--	-------------------	---