

MTP – D&T – Spring 2 YR2



Topic	What do we know about the Victorians and the way they lived? (BV LINK) (D&T Kapow: Structures: Baby Bear’s chair – Year 2 unit)				
N.C Learning Objectives	<p>Design</p> <ul style="list-style-type: none"> Design purposeful, functional, appealing products for themselves and other users based on design criteria Generate, develop, model and communicate their ideas through talking, drawing, templates, mock- ups and, where appropriate, information and communication technology <p>Make</p> <ul style="list-style-type: none"> Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics <p>Evaluate</p> <ul style="list-style-type: none"> Explore and evaluate a range of existing products Evaluate their ideas and products against design criteria <p>Technical knowledge</p> <ul style="list-style-type: none"> Build structures, exploring how they can be made stronger, stiffer and more stable Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. 				
Vocabulary	<p>Exploring stability To make, draw or write plans for something.</p>	<p>Strengthening materials A flat 2D shape, that can become a 3D shape once assembled.</p>	<p>Structure Something that has been made and put together. For example, a building, bridge, chair or table.</p>	<p>Stiff A produce a finished structure and evaluate its strength, stiffness and stability.</p>	<p>Strong It doesn’t break easily.</p>
	LEARNING OBJECTIVE	STICKY KNOWLEDGE FACT	CORE LEARNING		
Lesson 1	We are learning to explore the concept and features of structures and the stability of different shapes.	Often structure have a certain function, they are made to do something, eg, chairs are for sitting on.	<ul style="list-style-type: none"> Explore stability: To explore the concept and features of structures and the stability of different shapes Designing the structure: To include individual preferences and requirements in my design 		
Lesson 2	We are learning to understand that the shape of the structure affects its strength.	A design criterion is a list of points for the product to meet the needs.	<ul style="list-style-type: none"> Strengthening materials: To understand that the shape of the structure affects its strength Assembling the structure: To make a stable structure 		

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Lesson 3	We are learning to make a structure according to design criteria.	Stable structures are safer because they do not easily topple over or fall down.	<ul style="list-style-type: none"> Assembling the chair: To assemble the components of my structure
Lesson 4	We are learning to produce a finished structure and evaluate its strength, stiffness and stability.	Evaluation is to look at the good and bad points about something to help us improve, and testing a product lets us find out if everything works as it should.	<ul style="list-style-type: none"> Test and evaluate: To produce a finished structure and evaluate its strength, stiffness and stability
Outcome	To make a stable chair.		