



St John Vianney Catholic Primary School



What I am Learning in

D&T this Term...

Year 1 –Structures- Freestanding Structures

Topic Overview – Lesson Objectives

Lesson 1	Go on a walk to explore structures such as playground equipment. Draw and label the structures seen using appropriate vocabulary and shapes.
Lesson 2	Build and explore a variety of freestanding structures using construction kits considering such things as ‘How can you stop your structure from falling over?’ Fold paper and card in different ways to make freestanding structures.
Lesson 3	Design what to make and suggest what to do next thinking about product and purpose. As a class, plan the order in which the structure will be made. SJV - Design a freestanding structure of Blackpool Tower or Rollercoaster.
Lesson 4	Make the product by selecting appropriate materials and construction kits and new and reclaimed materials.
Lesson 5	Finish making the product using finishing techniques suitable for the structure they are creating.
Lesson 6	Evaluate your product by discussing how well it works in relation to the purpose and the user and whether it meets the design criteria.

Assessment – National Curriculum

NC Statement	Maths/Literacy opportunity	Child led enquiry
<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. <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 according to their characteristic. <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. 	<p>Use appropriate standard and non-standard measures. Recognise and name common 2-D and 3-D shapes.</p> <p>Traditional Tales: Billy Goats Gruff (bridge) Goldilocks and the Three Bears (Furniture for the bears) Spoken language-Ask relevant questions to extend your knowledge and understanding. Build technical knowledge.</p>	<p>How can you make your structure stronger?</p>

Topic Vocabulary

cut, fold, join, fix, structure, wall, tower, framework, weak, strong, base, top, underneath, side, edge, surface, thinner, thicker, corner, point, straight, curved, metal, wood, plastic, circle, triangle, square, rectangle, cuboid, cube, cylinder, design, make, evaluate, user, purpose, ideas, design criteria, product, function