All Saints CE Primary School and Nursery
Medium Term Planning

Class teacher: Jake Woolcock Year group: 5 Term: Summer 2 Subject: Design – Bridges

Lesson	Learning Goal (L.G.)	Brief outline of lesson content (or where this can be found/unit found in, if for example it is a published scheme such as Science, Kapow French or Music, Purple Mash computing)	Key Vocabulary covered
1	I can explore the different types of bridges.	Oreo and Hobnob need a bridge to help them get around the rainbow room. Look at the different types of bridges and what makes them unique.	FRAME TRIANGULATION RIGID MODEL MECHANISM PULLEY CIRCUIT CONTROL ACTION PLAN MAKING SEQUENCE SPECIFICATIONS EVALUATION
2	I can explore how a beam bridge can be reinforced.	Give children 3 pieces of paper and ask them to lay the pieces across a gap. What happens. What could they think of to reinforce them. Talk about shapes and ask them to explore.	FRAME TRIANGULATION RIGID MODEL MECHANISM PULLEY CIRCUIT CONTROL ACTION PLAN MAKING SEQUENCE SPECIFICATIONS EVALUATION
3	I can use spaghetti to make a truss bridge.	Children to use masking tape and spaghetti to make small bundles and start to form a bridge shape using the truss design.	FRAME TRIANGULATION RIGID MODEL MECHANISM PULLEY CIRCUIT CONTROL

			ACTION PLAN MAKING SEQUENCE SPECIFICATIONS EVALUATION
4	I can plan and design a truss bridge.	Children to pick which truss design they are going to use and draw a plan for what their bridge is going to look like including measurements in CM	FRAME TRIANGULATION RIGID MODEL MECHANISM PULLEY CIRCUIT CONTROL ACTION PLAN MAKING SEQUENCE SPECIFICATIONS EVALUATION
5	I can build a truss bridge from wood using my design.	Using tools – Junior hack saw and Desk vice cut their wood dowel into the lengths they need. Using hot glue guns join their bridges together following their plans.	FRAME TRIANGULATION RIGID MODEL MECHANISM PULLEY CIRCUIT CONTROL ACTION PLAN MAKING SEQUENCE SPECIFICATIONS EVALUATION
6	Test and evaluate my wooden bridge.	Using the agreed weight of twice the weight of the Guinea Pig and see if their bridge can hold. Evaluate their bridges against this and their original design.	FRAME TRIANGULATION RIGID MODEL MECHANISM PULLEY CIRCUIT CONTROL ACTION PLAN MAKING SEQUENCE SPECIFICATIONS EVALUATION