Structures	EYFS -		KS1- How freestanding structures can be made stronger, stiffer and more stable – Model city/village		strong, stiff shell abitat Biome	UKS2- How to reinforce and strengthen a frame structure- Brilliant Bridges	
Substantive Knowledge		-They can be large like building and tables - They need to support their we them -They need to be strong, rigid a -Stability in a structure can be in wider - A buttress adds width to base has a free-standing structure by stable - Structures can be made strong that parts and materials are pro-	- They need to support their weight or the weight of things using them -They need to be strong, rigid and stable -Stability in a structure can be improved by making the base wider - A buttress adds width to based making it more stable - As a free-standing structure becomes taller, it becomes less		ructures with a solid our ner area ed to protects, contain els, helmets and boats I structures o be appealing to the estrengthened through and ribbing.	- Frame Structures are rigid support structures that use beams, columns and slabs to hold large forces of gravity and weight  - Beam  - Column  - Slabs  - The system of beams and columns can be further strengthened through foundations and bracing  -Triangulation can be used to add strength to a structure	
Technical Knowledge		-Folding materials can make the - When cutting the index and m are still The thumb is used	Measuring to the nearest Cm		of scribing, or even the material along the d. gether several layers of a piece of paper or card to layers of card of straws between	-Joints for Straws can be made through; Being flattened, wrapped around and glued - Joints for thin pieces of wood can be made through; Card strips, card triangles and elastic bands - Junior hacksaws are used to cut soft materials like wood - A bench hook is used to hold a workpiece in place while crosscutting with a hand saw When two prices of wood come together at 90 degrees they are said to be Square	
Vocabulary to be taught explicitly		Strong Rigid Stable Weak Buttress Index & middle fingers	Three-dimensional Tabs Slot Fold Free-standing Stiff	Shall structures Cube Cuboid Cylinder Base Curve Adhesive	Assemble Laminating Corrugating Ribbing Durable Solid hollow	Beams Foundations Bracing Triangulation Crosscutting Handsaw Scoring	Columns Hacksaw