

Topic: Design Technology Year Group: 4 Autumn Strand:

Structures – Big Top



What I should already know	Sticky knowledge	Key skills
• I know that structures are things that are built for a purpose. • I know how to make a simple structure more stable. • I know how to design a product based on a design criteria and a purpose. • I can evaluate how my product meets criteria and discuss what I would change.	• I know that shell structures have a solid outer surface and a hollow inner area and I can give examples of shell structures. • I know shell structures need to be stiffened • I know that shell structures have different purposes. • I know some examples of shell structures. • I know how to make a shell structure to protect a product. • I know how to make a prototype	Designing • I can identify a purpose for my product and prove my design meets this criterion. • I can plan a sequence of actions to make a product • Design a product and make sure that it looks attractive Making • I can measure, mark, cut, score and assemble with accuracy. • I can select from materials according to their functional properties. Evaluating • I can investigate similar products and use this as a starting point for my designs. • I can research key events and individuals in design and technology. • I can discuss how well my product meets the user's design criteria. Technical knowledge: • I can create a prototype for my product • I can strengthen structures by folding, corrugating or ribbing materials

