<b>?</b>	Design and Technology Year I - Bright Lights Big City Structures – Tudor house			
Project title		Key Skills	Technical Knowledge and understanding.	
Design, make and evaluate a Tudor house for yourself to recreate The Great Fire of	Maaking	Cut and Three	<ul> <li>Know how to make freestanding structures strong, stiffer and more stable.</li> <li>Know and use technical vocabulary relevant to the project.</li> </ul>	
London.	Top here Top here As a freestending structure houses the provery his structure the proved tasks. Use a range of the proved ta		<ul> <li>Focused skills</li> <li>Demonstrate measuring, marking out, cutting, shaping, joining and finishing techniques with a range of tools and new and reclaimed materials that children are likely to use to make their structures. Discuss the suitability of materials for their products according to their characteristics.</li> <li>To build and explore a variety of freestanding structures using construction kits, such as wooden blocks, interconnecting, plastic bricks and those that make frameworks e.g. how can you stop the structure from falling over? How they can be made stronger and stiffer in order to carry a load? Children could make models of the structures they have seen in school and the local area.</li> <li>To fold paper or card in different ways to make freestanding structures, using masking tape where necessary to make joins. Encourage them to think about how folding materials can make them stronger, stiffer, stand up and be more stable e.g. can they support an</li> </ul>	
			object on top of their structures without it falling over or breaking?	
	Vocabulary	•• •	Key Learning	
Design To generate, develop and communicate ideas for a product. Frame structure	Freestanding structure A structure that stands on its own foundation or base without attachment to anything else. Shell structure	Mock up A 3-D representation of a product. Stability	Prior Learning.     Design       -     Experience of using construction kits to build walls, towers and frameworks e.g. lego, building blocks.     -     Generate ideas based on simple design criteria and their own experiences, explaining what they could make.       -     Experience of using basic tools e.g. Scissors or hole punches with construction materials     -     Develop, model and communicate their ideas through taking, mock ups and drawings.	
A structure made from thin components e.g. tent frame.	A hollow structure with a thin outer covering.	In relation to a freestanding structure, the extent to which it is likely to fall over if a force is applied.	<ul> <li>e.g. card, plastic.</li> <li>Experience of different methods of joining card and paper.</li> <li>Look at difference models and structures of houses (pictures).</li> </ul>	
Buttress A structure added to a wall, tower or framework to make it more stable/ reinforce it.	Brick bonding Arranging bricks in a wall to improve the performance of the structure or improve its appearance.	Structure A building or other object constructed from lots of parts.	Make       Evaluating         -       Plan by suggesting what to do next.       -       Explore a range of existing freestanding structures on the school and local environment e.g. everyday products and buildings.         -       Select new and reclaimed materials and construction kits to build their structures.       -       Evaluating         -       Use simple finishing techniques suitable for the structure they are creating.       -       and whether it meets the original design criteria.	