Year 2 Design Technology – Construction: Great Fire of London Houses Vocabulary

beams	A long, thick piece of wood, metal, or concrete, used to support weight in a building	
	or other structures	
flammable	Something which burns easily	
Design	A description of how something should be done, made, etc	
Specification	,	
cuboid	A solid object with six rectangular sides	
bench hook	A device with a hooklike part fitting over the front edge of a workbench to stop a an	
	object from slipping	
hacksaw	A small saw used especially for cutting metal	
blade	The flat part on a knife or similar tool or weapon, with a very thin edge used for cutting	
handle	Part of an object designed for holding, moving, or carrying the object easily:	
evaluation	The process of judging the quality of something	
measure	To discover the exact size or amount of something	
brace	Something that is used to support or connect things, or to make something stronger	
in the	Something that is used to support of contrect things, of to make something stronger	

Year 2 Design Technology: Wheels and Axles

Knowledge

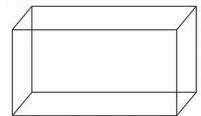
- Know that key features and materials of buildings in London during the Great Fire of London was: wooden framework, beams, and a thatched roof
- Know that this made the buildings:
 - o flammable;
 - old as the heat would be lost easily;
 - o weak as they were held together with nails;
 - o wet as wood was not waterproof
- Know that modern buildings are built with materials specifically chosen for the purpose they are used for including: brick, slate, and cement. This means buildings are stronger, stay warmer and are waterproof.
- Know that a design specification is a list of things that we need to do to solve a task successfully
- Know the size of a cm (approx. the length of a staple)
- Know that the frame of the model house will be made from a cuboid

How to Measure Using a Ruler

- Know that we use a ruler to measure the exact size we want our piece of wood to be
- Know that we can measure in centimetres (cm)
- Know that when using a ruler, we measure from 0 and not from the edge of the ruler
- Know that when using a ruler, we count on until we have found the measurement that we want.
- Know that once I've done this do I draw a line by holding the ruler firmly (so as not to get a non-straight line)

How to be Safe When using a Hacksaw

- Hair must be tied back
- Shoe laces must be tied up
- Children make sure there is 'sawing space' between them (1m)
- Hacksaws are only picked up when instructed
- Hacksaws on put down when instructed
- Know that the blade is very sharp and we only hold the hacksaw by the handle
- Know that a <u>cuboid</u> requires a length, height and width (3 dimensions



How to saw Using a Hacksaw

- Know that we place our thumb at the top of the handle
- Know that you need to start with a slow cut
- Know that the whole length of the saw (blade) must be used to cut the wood
- Know that in order to strengthen structures, we can brace corners of the wooden beams with triangles.
- e that makes the structure
- Know that a brace is a triangular shape that makes the structure stronger, stiffer and more stable (piece of card)

Quizzing	Quiz at home		
Ask your partner the questions below. Can they find the correct ar	A along and old to look at the KO		
What is the name of the sharp part of a hacksaw?	Evaluation	Ask your adult to look at the KO.	
What is the name of the tool used to help you keep a piece of	0	Quiz them using the vocabulary and	
wood still whilst you saw it?		knowledge section or the quiz questions.	
What a material can easily catch fire it is called this?	cm]	
Where do we start measuring from when using a ruler?	Blade	•Can they beat your score?	
What shape do we use to strengthen corner joins?	Bench hook		
What is it called when come up with a list of things that you	Flammable	•Can they score more than 5? 10?	
want your project to include?			
What is it called when you work out what went well and how	Attach triangular corner	Compete with your adult in the	
you might improve your project if you were to do it again?	braces	elimination quiz. Take it in turn to ask	
What units did we measure in when measuring our wood?	Triangular	each other questions. The first person to	
	Design specification	get a question wrong is out.	
	The edge of the ruler		
cm 1 2 3 4 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7 3 7		-? -?	
Big Questions	Beat Your Adult		
 What materials were houses made from during the Great Fire of London? What materials are houses made from now? Why are different materials used now? What effect does this have on the house? How can you make a join of two pieces of wood stronger? What are 5 things you need to do to make sure that you are safe whenever you use a hacksaw? 	How many types of buildings can you name in 1 minute? How many London landmarks can you name in 1 minute?		

Word scramble	Tasks	Creative Task
Unscramble the key vocabulary from this topic below. You can create your own at the bottom bmmlfaale adebl oiducb ndelah aeuresm awcksah caerb luonitevaa	1. Use a blank copy of the KO to fill in the missing information. 2. The state of the KO to fill in the missing information. 3. The state of the KO to fill in the missing information.	 Draw 5 lines using a ruler: 5cm 10cm 25cm 13cm 21cm Draw 3 squares inside each other. The length of the squares need to be: 20cm 10cm 5cm Now colour them in different colours and cut the biggest one out carefully Imagine you owned a shop during the Great Fire of London. Write up to three diary entries detailing what you can see and what is happening? Create some artwork inspired by the Great Fire of London

Tell a partner / an adult the definition for the missing spaces below Vocabulary

beams		
	Something which burns easily	
Design Specification		
cuboid		
	A device with a hooklike part fitting over the front edge of a workbench to stop a an object from slipping	
	A small saw used especially for cutting metal	
blade		
	Part of an object designed for holding, moving, or carrying the object easily:	
evaluation		
	To discover the exact size or amount of something	
brace		