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| **St Bartholomew’s Knowledge Organiser****Design Technology** | **Class 2** |  **Spring 2 DT–** **Year 2021-2022** | ***Structures – Baby Bear’s Chair*** |
| **What we will learn:** |  **Success Criteria:** |
| In this unit you will learn to;* explore the concept and features of structures and the stability of different shapes
* identify natural and man-made structures
* understand what is meant by stability and can identify when a structure is more or less stable than another
* know that shapes and structures with wide, flat bases or legs are the most stable
* explore strength in different structures
* understand that the shape of the structure affects its strength
* know the meaning of the words strength, stiffness and stability
* know there are different ways paper can be folded to improve its strength and stiffness
* build a strong and stiff structure by folding paper
* test the strength of my structure
* make a structure according to design criteria
* remember that chairs are structures and need to be strong, stiff and stable
* create joints and structures from paper/card and tape
* produce a finished structure
* evaluate the strength, stiffness and stability of their structure
* know that the chair I design for Baby Bear needs to: support Teddy; be strong, stiff and stable
* know how to create joints and structures
* evaluate my structure according to the design criteria
 | * Identifying man-made/natural structures.
* Contributing to discussions.
* Identifying stable and unstable structural shapes.
* Identifying features that make a chair stable
* Explaining the definition of strength.
* Identifying the strongest and weakest shaped and part of a structure.
* Making and testing a structure
* Working independently to use the materials as demonstrated to begin to make a stable structure.
* Explaining how their ideas would be suitable for the given brief
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| **Important Vocabulary** |
| **Function – how something works****Man – made – made by people****Mould – to form different shapes out of soft, squishy material****Natural – found in nature eg sheep’s wool, spider’s web****Stable – object does not easily topple over****Stiff – a material or object that does not bend easily eg wood****Strong – something that is not easily broken****Structure – something that has been made and put together and can usually stand on its own, eg bridge, chair****Test – to find out if something works as it should****Weak – something that is easily broken eg egg shells, paper** |