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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 | |
| **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** | |