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**Knowledge Rich Curriculum Plan**

GCSE Design Core

Specialist Technical Principles - 2.5 Using and working with materials



| **GCSE Design Core** | **Specialist Technical Principles  2.5 Using and working with materials** |  |  |  |
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| **Lesson/Learning Sequence** | **Intended Knowledge:**  *Students will know that…* | **Tiered Vocabulary** | **Prior Knowledge:**  *In order to know this students, need to already know that…* | **Assessment** |
| **Lesson:**  **Using and working with materials** | * Students will know the basic tools used for Design and Technology * Students will know the basic cutting tools are a Tenon saw and a Coping saw * Students will know the basic tools for cutting are Vices and Bench hooks * Students will know the basic tools for marking out are a Steel rule and Tri square | Tenon saw: a small saw with a strong brass or steel back for precise work.  Coping saw: a saw with a very narrow blade stretched across a D-shaped frame, used for cutting curves in wood.  Bench hook: a device with a hook like part fitting over the front edge of a workbench as a means of preventing an object from slipping toward the rear of the bench.  Steel rule: a rule manufactured from either spring or stainless steel that feature either metric or imperial (or both) scales along its length.  Tri square: an implement used to check and mark right angles in constructional work. | * ***Students need to already know the names of the tools used in DT*** * ***Students need to already know the tools used for cutting*** * ***Students need to already know the tools used for marking out*** * ***Students need to already know the tools used for cutting timber*** | Compare the similarities of the tools used for the same job.  How does the use of different tools help with the manufacture of the timber |