|  | **Topic** | **Key concept – what do I want the students to learn from this unit?** | **What knowledge will they acquire?** |
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|  **YEAR 9 Design Technology OVERVIEW** |
| **9 - half term 1** | Design communicationBasic Tools and equipment  | * Presentation of design work
* Techniques to enhance creativity
* Producing initial design ideas
* Development of design ideas
* Avoiding design fixation
* How to identify tools and equipment
* Follow health and safety rules
* Complete a small key ring using a variety of tools and materials
* Identification of wood and timbers
 | * Jack straws
* Scruffity
* Line work
* SCARED and SCAMPER
* Biomimicry
* Rendering
* Safety
* Tool identification
* Accuracy of measurement
* Properties and specification of wood and timbers
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| **9 – half term 2** | Design TechnologyMini NEA projectShelving project | Research, design brief, specifications, developing ideas1st part of shelving projectExplore existing products  Communication through ideas  | Problem solving Variety of ideas Avoid design fixation Creativity through shape and colour.Understanding clients and user needs  |
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| **9 – half term 3** | Design TechnologyMini NEA projectShelving project | Planning manufacture to minimise waste and manage materials effectivelySelect and use materials to produce a productUse a range of tools and equipment safely | Tolerances and marking outAssembly methodsMaterials selection and managementSurface finish and modification of propertiesShaping and forming materials with tools/equip |