|  | **Topic** | **Key concept – what do I want the students to learn from this unit?** | **What knowledge will they acquire?** |
| --- | --- | --- | --- |
| **YEAR 9 Design Technology OVERVIEW** | | | |
| **9 - half term 1** | Design communication  Basic 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 |
| **9 – half term 2** | Design Technology  Mini NEA project  Shelving project | Research, design brief, specifications, developing ideas  1st part of shelving project  Explore existing products    Communication through ideas | Problem solving  Variety of ideas  Avoid design fixation  Creativity through shape and colour.  Understanding clients and user needs |
|  |
| **9 – half term 3** | Design Technology  Mini NEA project  Shelving project | Planning manufacture to minimise waste and manage materials effectively  Select and use materials to produce a product  Use a range of tools and equipment safely | Tolerances and marking out  Assembly methods  Materials selection and management  Surface finish and modification of properties  Shaping and forming materials with tools/equip |