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| **This half term : Skills, Knowledge and**  **Understanding to be developed:**   * To complete the Analysis into a problem. * To complete the user requirements * To complete the user profile including user needs and wants.   Literacy- WL2, WG1, WG3, WG5, & WG7c | **Key Terms to be learned this half term:**  Design, technology, wood, harwood, softwood, Ergonomics, Anthropometrics, forming,Production plan,ACCESS FM ,planning, research, product analysis, measurements, safety glasses, practical, evaluation. |

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| **Week 1 and 2 Learning Objectives etc:**  -Looking at areas and opportunities in which designs can take place.  - Identifying a problem and researching into what possible projects could be thought of to solve this problem.  -Complete a mindmap with these  - Simple questions are being asked by the student Who? Why? How? Keeps an open approach.  -Conclusion about what their challenges is going to be and why they have chosen it.  Skills:  Digital Literacy, research, problem solving |  | **Objective assessments:**  To be able to identify a problem and analyse the possible projects that could answer this problem | **Homework**  Look into possible problems for the project. Bring possible solutions in with you next lesson. |
| **Week 3 and 4 Learning Objectives etc:**  -Once students have come up with a problem they will need to write out a few design brief stating their intentions.  -Design briefs will be a short statement of intent.  - They will start with ‘I will design and make a……..’  -They will then finish off this start with a brief paragraph stating what they will do for the project.  -Students need to produce 2 briefs and pick their preferred.  Skills:  Problem solving, literacy |  | **Objective assessments:**  To write two complete design briefs explaining their intentions. |  |
| **Week 5 and 6 Learning Objectives etc:**  -After completing the design briefs students need to write their specification.  -The specification is a list a specfic features the project MUST include.  -Function, sustainability, cost,customer, aesthetics, environment, materials, maintenance, materials. These are all topics that need commenting on in the specification.  -They will need to then justify and evaluate each topic ans refer back to the problem.  -Then order them in a hierarchy of importance.  Skills:  Problem solving, |  | **Objective assessments:**  Their completed specification should be detailed and each topic must be justified and evaluated. | **Homework:**  Come up with 10 topics to write your specification. These will need to be in order of importance. |
| **Week 7-8 Learning Objectives etc:**  -As a part of their research they will need to gather research.  -They need to look into products that are on the market. 4 SWOT analysis to be completed.  -Two formal product analysis using ACCESS FM.  Also they will have to look into present companies and designers and produce a page looking into one of these.  Skills: |  | **Objective assessments:**  Detailed and relevant research into similar products and companies. | **Homework:**  To find 4 images of similar products to write their SWOT analysis. |