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| **Subject:** Product Design |
| **Task:** |
| CAD 3d drawing tasks |
| **Why is this required for September?** |
| **CAD 3D fusion 360 require for NEA project**  Product design requires students to have certain skills in CAD 2d (Tec soft) & 3D (fusion) start to start the course on an equal level. This scheme of lessons will teach basic level functionality in the 3D software that is use to design components and products in the A level product design course. |
| **What Assessment/Feedback should you expect?** |
| Design shapes leveled to marking criteria. This is so the class teacher can see what work  needs to be done at the start of the course before the content starts. |
| **Time this task (s) should take:** |
| The time taken on these tasks will be dependent upon how confident you are with the CAD. No more than a few hours should be spent on this however. Tutorials demonstrate all functions assessed.   * Setting up Fusion 360 account * Sketching 2D shapes * Extruding 3D forms * Offset plane -Mirror * Shell shape * Revolve * Chamfer-fillet * Save file- export STL |
| **Suggested links or other resources to support:** |
| YouTube tutorials are contained to support further skills development. |
| **Optional Extra tasks:** |
| Extension tasks contained in VLE folder for task |
| **How will this link to independent study tasks in September?** |
| You will be required to complete further tasks during September that will help to bridge the gap between GCSE and A-Level and further develop advanced CAD drawing skills. |