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| **Unit Yr9 Mug Project**  | **Road Map** |
|  | Assessment Grades |  |  |
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| **Themes** | **Learning Goals/Outcomes/Content** |  |  |  |
| L1 How do you communicate effectively in 2D? | Know how to use simple forms to create design objectsKnow how to draw to a level of good communication |  |  |  |
| L2 How do you use inspiration to influence creative designing? | Know how to use a mood board to create unique ideasKnow how to annotate to communicate function |  |  |  |
| L3 How do you use Google SketchUp to design? | Understand the benefits of using 3D modellingUnderstand how to use the basic functions of Google Sketchup |  |  |  |
| L4 How do you use google SketchUp to communicate ideas? | Understand how to apply Google SketchUp skills to produce a presentation drawingBe able to select appropriate views to communicate an idea |  |  |  |
| L5 How do you cut steel to a high level of tolerance? | Know how to measure and mark metalsKnow how to cut metals with hand toolsKnow how to apply quality control checks |  |  |  |
| L6 & 7 What industrial processes are used to finish metals? | Understand the various ways to finish the surface of metals.Understand how to prepare surfaces ready for finishes.Understand how to apply surface finishes. |  |  |  |
| L8 & 9 What industrial processes are used to form and waste metals? | Understand the key methods of forming metalsUnderstand what products can be manufactured using these processes |  |  |  |
| L10 & 11 How do you manipulate and permanently join steel? | Know how to measure and mark metalsKnow how to cut metals with hand toolsKnow how to spot weld steelKnow how to dip coat steel |  |  |  |
| L12 & 13 How do you manipulate and permanently join MDF? | Know how to measure and mark MDFKnow how to cut MDF with hand toolsKnow how to assemble MDF with PVA |  |  |  |
| L14 & 15 How do you transfer images using heat? | Understand what layering is in graphic design.Know how to produce a layered graphic to a set sizeUnderstand how to transfer images to ceramic |  |  |  |

**Links:** Links to maths regarding measurement and science regarding properties of materials.