|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Unit Yr9 Mug Project** | **Road Map** | | | | | |
|  | Assessment Grades |  |  | | | |
|  | |  | | | |
|  | |  | | | |
|  | |  | | | |
|  | |  | | | |
|  | |  | | | |
| **Themes** | **Learning Goals/Outcomes/Content** | | |  |  |  |
| L1 How do you communicate effectively in 2D? | Know how to use simple forms to create design objects  Know 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 ideas  Know how to annotate to communicate function | | |  |  |  |
| L3 How do you use Google SketchUp to design? | Understand the benefits of using 3D modelling  Understand 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 drawing  Be 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 metals  Know how to cut metals with hand tools  Know 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 metals  Understand what products can be manufactured using these processes | | |  |  |  |
| L10 & 11 How do you manipulate and permanently join steel? | Know how to measure and mark metals  Know how to cut metals with hand tools  Know how to spot weld steel  Know how to dip coat steel | | |  |  |  |
| L12 & 13 How do you manipulate and permanently join MDF? | Know how to measure and mark MDF  Know how to cut MDF with hand tools  Know 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 size  Understand how to transfer images to ceramic | | |  |  |  |

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