

# Product Design Curriculum Map



**YEAR 11**

**YEAR 10**

**YEAR 9**

**YEAR 8**

**YEAR 7**

Exam preparation  
Revision and intervention  
Mechanical components  
Electronic systems

Evaluation  
Manufactures specification & plan  
Development  
Research  
User research

Textiles, paper, card and board  
Polymers & metals  
Modelling & presentation of idea  
Prototype  
Brief and specification  
Research plan  
Analysis of contextual challenges

Market Pull & Technology Push & Customer  
Sustainability & CAD/CAM  
Carbon footprint & Ecological footprint  
Smart materials  
Primary sources & seasoning of timbers  
Types of timber  
Marking out & Shaping wood  
Laminating, steam bending & veneering  
Selection of materials

Product Life Cycle & Global production  
Renewable energy  
Legislation  
New materials  
Detorestation  
Scale of production  
Electronics (Soldering)  
Marking out & cutting  
(CAD) 2D Design  
Clock face

Chiselling & gluing  
laser cutting  
Annotating ACCESSFM M and LED's  
Drawing base for clock  
Rendering Tone & wood effect

Varnishing  
Nets for packaging  
Packaging design for key ring  
Health and Safety  
Existing products  
Specification  
Perspective drawing

Drilling  
Painting  
Craft knife  
Design Brief  
Task analysis  
Rendering Tone and metal effect  
Isometric drawing of cross & circle shape

Buffing  
Pewter casting  
CAD (2D design)  
Filing & smoothing  
Removing funnel  
Laser cutting  
Annotating ACCESSFMM and materials options  
Orthographic drawing of umbrella & ring for keyring  
Existing products  
Task analysis

Marking out & cutting (Tenon saw)  
Cutting (coping saw)  
Undercoating & painting  
Health and Safety  
Design Brief

Filing & smoothing  
Annotation  
Drilling, screwing & counter sinking  
Constructing, filling, smoothing & priming  
Health and Safety  
Design Brief

Rendering Tone and wood effect  
Existing products  
Health and Safety  
Oblique Projection  
Task analysis & Cams  
Design Brief

