Long Term Plan Subject: Product Design Year: 10

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| **Term** | **Topic (s)** | **Assessed Work** | **Additional details** |
| Term 1 a  (\_weeks) | History of Design  Investigation into different design styles and noted designers.  Product Evolution  Tech push – Market pull  Paper & Card as materials – Stock sizes | Design & Make project:  Acrylic Bangle in the style of…..  Use design influences  CAD design – plastic moulding | Use exam questions to check learning and develop skills  Encourage visit to WM gallery |
| Term 1 b  (\_weeks) | Packaging design – Purpose of – types of.  Printing methods  Die cutting  Classic design – design classics  Retro design | D&M project continues.  D&M task to make packaging for bangle. | Drawing techniques- 2d and 3d  Use of CAD  Collect example images |
| Term 2 a  (\_weeks) | Consumer issues – quality – standards  Branding and Advertising  Safety & Risk assessment  Materials – Wood / Metal / Plastic. Types and properties | D&M Project: MP3 amplifier / speaker.  Design through modelling  Construct an electronic circuit | Collecting examples.  Product analysis.  Investigate use of materials outside the classroom. |
| Term 2 b  (\_weeks) | Human factors – Ergonomics and Anthropometrics.  Smart & New Materials  Sustainability – Green Design – The six R’s. Carbon footprint. Product life cycle  Product maintenance. | Continue with D&M task  Finishing techniques.  Using the vinyl cutter.  Spray paint. | Product analysis of electronics products. |
| Term 3 a  (\_weeks) | Commercial production. Scales of production – Batch and mass production.  Standard components  QC & QA  ICT in manufacturing – JIT & CIM | Practice exam questions  Develop understanding of design theme and question 1 for exam. | Research into exam theme – collect material |
| Term 3 b  (\_weeks) | Investigation and planning of CA task.  Prep for Y10 exams  Target market planning | Develop styles of folder  Develop understanding of project mark scheme | Modelling of ideas to show TM. |