|  |
| --- |
| **Curriculum Plan for Parents – Year 10** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Subject** | **Product Design**  <http://www.aqa.org.uk/subjects/design-and-technology/gcse/design-and-technology-product-design-4555> | **Contact Person** | Mr D. Hinson |

|  |  |  |  |
| --- | --- | --- | --- |
| **Half term and topic** | **Your child will learn....** | **Key Homework** | **Assessment** |
| Autumn 1 | Introduction to Product Design course.  What is Product Design?  Short history of Design.  Product evolution.  Technology push/ market pull.  Product analysis: ACCESS FM, CAFEQUE,  Drawing/modelling and preparation techniques appropriate to support the Design & Make assignment.  Purposes and variety of packaging: Cartons, blister,  Printing: Litho, flexo, screen, gravure.  Die cutting. | Product evolution.  Technology push/ market pull.  Sketching Ideas. | Assessment of theory work in line with school making policy.  Assessment against GCSE marking criteria. |
| Autumn 2 | Design & Make assignment focussing on packaging based around a GCSE controlled task.  Introduction to adobe photo shop.  Generation of Ideas.  Development.  Introduction of 2D Design .  Modelling.  Evaluation.  Paper & card as a material:  Classification, properties, sources, stock sizes, combinations. | Sketching Ideas.  Third part evaluations.  Paper & card as a material. | Assessment of theory work in line with school making policy.  Assessment against GCSE marking criteria. |
| Spring 1 | Consumer issues.  Consumer groups.  Branding & loyalty.  Safety: own and users.  Risk assessment.  Plastics: Classification, properties, sources, stock, sizes, combinations  Smart and new materials.  Applications and influence on new products.  Human factors: Anthropometrics, ergonomics, special groups.  Sustainability: 6Rs, Green design, product miles, carbon footprint, life cycle, responsibilities. | Branding & loyalty.  Plastics  6Rs | Assessment of theory work in line with school making policy. |
| Spring 2 | Design & Make assignment focussing on manufacturing in quantity as a team.  Ideas using 2 D Design.  Development of an Idea through group discussion.  Use of CAM to manufacture.  Quality Assurance. |  | Assessment against GCSE marking criteria. |
| Summer 1 | Introduction to commercial production: scales, organisation, costs.  Standard components.  Product maintenance.  Quality: QA/ QC, tolerance, manufacturing specification.  ICT in manufacturing: | Commercial production.  Standard components. | Assessment of theory work in line with school making policy. |
| Summer 2 | Introduction to Controlled Assessment Tasks.  Research planning .  Research.  Product analysis.  Exam prep Y10.  Y10 exams.  Exam feedback.  Target market planning.  Design criteria: ACCESS FM, CAFEQUE.  Design strategy. | Collecting images.  Annotation of slides.  Exam preparation.  Past papers. | Assessment against GCSE marking criteria. |