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

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

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| **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, combinationsSmart 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.Plastics6Rs | 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. |