## Subject: Design & Technology

# Year 7

OVERVIEW produce bespoke products in response to a given design brief. We base all our learning and assessment around our ethos of Design, Make, Evaluate and Knowledge. Year 7 provides students with an introduction the workshop, workshop principles and materials. Students will work with timbers, polymers, textiles, and graphic products. They will be shown how to use hand tools, workshop machinery and the laser cutter to produce professional products, these skills serve as a skills introduction but also introduces workshop health and safety and working to tolerances which are fundamental to all projects throughout the key stages. Speed Game – timber skills Additional Design and 1. Marking out, origins of timber. Technology theory sessions. 2. Manufacturing Corner halving game. joint 1 These additional sessions will run for 3. Manufacturing Corner halving half of the year and classes will then otate for the other half to complete machinery skills. joint 2 he project. These lessons embed the aspects of 4. CAD (Computer Aided Design) 1 design and technology theory that 5. CAD (Computer Aided Design) 2 are fundamental the success of all projects, these sessions will build up 6. Assemble/Evaluate to a formal summative assessment. Due to the practical nature of the subject, 1. Mechanisms students will receive verbal feedback during Structures 2. each lesson, formal feedback will take place at 3 Metals the end of each project. 4. Timbers 5. Polymers Maze Game 6. Textiles 7. Design skills 1. Tie dye - Back stitching Maze Game 8. Design skills Heat transfer - Back stitching 9. Summative 3. Back stitching - Sewing machine. assessment 4. Sewing machine Spring 5. Maze manufacture and templates 6. Assemble/Evaluate Additional Design and evaluation. \*Self and Teacher assessment through end of unit assessment grid. Technology theory Due to the practical nature of the subject, sessions. students will receive verbal feedback during each lesson, formal feedback will take place These additional sessions will run for at the end of each project. half of the year and classes will ther otate for the other half to complet he project. These lessons embed the aspects of design and technology theory that Graphic Design – Frisbee Design are fundamental the success of all 1. Initial ideas – sketching projects, these sessions will build up **Frisbee Design** o a formal summative assessment. 2. Initial ideas – sketching 3. Realising Design Ideas - frisbee 1. Mechanisms Realising Design Ideas - frisbee/ 4. 2. Structures Summe packaging 3. Metals 4. Timbers 5. Realising Design Ideas – packaging evaluation. 5. Polymers 6. Assemble/Evaluate 6. Textiles \*Self and Teacher assessment through end of 7. Design skills unit assessment grid. 8. Design skills polymers. 9. Summative Due to the practical nature of the subject, assessment students will receive verbal feedback during each lesson, formal feedback will take place at the end of each project. Useful resources for supporting your child at home: Homework:

Salford City Academy

In the Technology faculty we develop students into independent problem solvers, by teaching the students how to independently

The best in everyone™

### Excellent design sketching tutorials:

product designer maker - YouTube

Student access to Focus eLearning – direct link given to students.

recycling polymers.

Homework will be set fortnightly; it will focus on key vocabulary associated with the subject.

### Assessment:

**Design** – designing of the playing area of the

Make – practical hand tool and workshop

Evaluate – assessing their own work throughout the project and as a final evaluation.

**Knowledge** – selecting and using hand tools safely and accurately, timber knowledge.

### Assessment:

Design – playing area of the game and sublimation printing graphic.

Make - textiles hand and sewing machine skills. Evaluate – assessing their own work

throughout the project and as a final

**Knowledge** – selecting and using textiles tools safely and accurately, textiles knowledge.

### Assessment:

Design – full autonomy of the item's appearance. Make – producing the packaging.

**Evaluate** – assessing their own work throughout the project and as a final

Knowledge – selecting and use of typefaces and colour schemes, sustainability, and recycling

enhanced knowledge of sustainability and