# KS3 Y7 DT CURRICULUM OVERVIEW

## SUBJECT: DESIGN TECHNOLOGY

### PROJECT 1 – Desk Tidy – Timbers & plastics

| Topics being taught | What you will be assessed on | How you can support at home |
|---|---|---|
| H&S Workshop introduction.<br>Selecting of materials for their properties.<br>Selection and use of tools, machines, and processes of manufacture. | Material names/categories<br>Tool names<br>H&S in the workshop | Materials and their uses in different products |
| Plastic processes – vacuum forming.<br>Introduction to timbers – manufactured vs natural.<br>Designing to scale. | De Stijl Design movement<br>Quality of final manufacture product<br>Designing with accuracy and to scale | Support Home learning tasks linked to project |

### PROJECT 2 – Gadget – CAD/CAM and plastics

| Topics being taught | What you will be assessed on | How you can support at home |
|---|---|---|
| Intro to CAD – Techsoft design<br>Laser cutting.<br>Prototyping and modelling in card. | Use, knowledge and understanding + of using CAD – Techsoft design. | Support Home learning tasks linked to project |
| Working with Plastics (acrylic) – strip heating<br>Designing for purpose.<br>2D into 3D sketching. | Quality of final designed product. | Support Home learning tasks linked to project |

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