

## Curriculum Information for Parents

### Key Stage 3 Design Technology

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<b>Examination Board</b>	NA	<b>Specification Code</b>	NA

#### Subject Content

The KS3 Design Technology course is split into 5 projects each lasting one term (approx. 6 weeks), students complete project 1 and 2 in year 7 and then 3 and 4 in yr8 and 1 project in yr9 before deciding on their choice of subject for end of yr9 (studying food and Art on rotation around these).

#### **Project 1.**

Design and make a personalized photo frame; work includes Survey, Design specification, 2d hand drawing, 2D computer aided design work, laser cutting, practical in workshop (making in MDF), evaluation

#### **Project 2.**

Design and make a desk tidy; work includes product analysis, Design specification, isometric 3d drawing, 3D CAD software modelling, practical on workshop tools (making in MDF, pine, Plywood) evaluation.

#### **Project 3.**

Design and make Pewter cast Jewellery or keyring with packaging: work includes, metal research, design criteria, Scamper Design, 2d hand design, 2D Computer aided design, metal casting in workshop, packaging design, 3d nets for packaging and requirements of packaging, evaluation.

#### **Project4.**

Design and Make MP3 player amplifiers; work includes soldering the electronics from kit, Detailed product analysis, Design Specification, 3D hand drawing, 2d Computer aided design work, Laser cutting Vacuum forming of plastic, strip heating plastic, assembly and evaluation

#### **Project 5**

Design and make a desk top clock: work includes, product analysis, design specification, 3d isometric drawings, CAD modelling, laser cutting, vinyl cutting, metal work, assembly and evaluation

2021/22 only (due to practical and CAD skills missed during lockdown).

#### **Alternative Project 5**

Design and make a desk tidy; work includes product analysis, Design specification, isometric 3d drawing, 3D CAD software modelling, practical on workshop tools (making in MDF, pine, Plywood) evaluation.

#### **Project 6 (for those opting to take DT for last 50% of year 9)**

Design and make a jewelry box; work includes materials research and woods theory, joining methods. advance practical woodwork skills like marking out, finger joints use of router. 2D CAD and construction of 3d laser parts, 3D CAD modeling, range of practical woodwork skills and learning and applying finishes, Evaluation.

#### **Additional Equipment Required:**

#### Assessment Details

The assessment Criteria is linked to KS3 national curriculum skills. Each project is awarded a grade which is 50% of practical outcome and 50% on supporting folder work. The assessment criteria are detailed in the student work books. There is an mid/end of year DT exam in yr7, yr8 and yr9, which tests the topics covered and provides opportunity for a design also.

#### What can I do to support my child at home?

Support them completing homework set on go 4 schools. These are strongly linked to completing the projects and are often research relating to their designs.

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### Recommended resources for the course:

Useful website for DT revision  
[www.technologystudent.com](http://www.technologystudent.com)

### Teaching Staff Contact Details

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### Additional Information:

Thanks for your support in advance for the parent contributions that allow the students to make such high quality practical outcomes that support their learning