

# KEY STAGE 3 CURRICULUM INFORMATION

## KEY STAGE 3 DESIGN TECHNOLOGY

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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 project 5 a longer project in yr9.

### Project 1 (South and North site)

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 (South site)

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

### Project 2 (North site)

Design and make a phone stand: work includes, design brief, design specification, material research into Acrylic, designing, paper and card development, 2D computer aided design work, laser cutting and making using jigs/former with a line bender.

### Project 3 (South site)

Design and make Pewter cast Jewelry 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.

### Project 4 (South and North site)

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

### Project 5 (South and North site)

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

### Project 6 (South site S year half only).

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.

### Project 6 (North site).

Graphics games project; work includes: designing, 2D CAD, laser cutter, paper and card, acrylic/MDF for counters.

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### 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 learning journey folders. There are mid/end of year DT exams in yr7, yr8 and yr9, which tests the topics covered and provides opportunity for a designing as part of the assessment.

### 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.

### TEACHING STAFF CONTACT DETAILS

| Name            | Role                                       | Email  | Tel          |
|-----------------|--|--|--------------|
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