

## 1c. Curriculum Overview: Design and Technology



SAINTS PETER AND PAUL  
CATHOLIC HIGH SCHOOL

### Year 7 Design and Technology

Term 1 – September to December  
Term 2 – January to March  
Term 3 – April to July

Refer  
to

#### Introduction to workshop skills – Photograph frame

##### What are the students learning?

- Health & Safety in the workshop.
- Sources, categories and properties of materials.
- Select and use tools to combine a range of materials into a usable prototype.
- Test and evaluate a completed product against a range of success criteria.
- How to evaluate their own designs.

##### What are the key standardised assessments?

- Practical health & safety - Using the pillar drill.
- Practical skills – focus on using woods, metals and polymers.
- Formative assessment – Conversion of timbers.
- Formative assessment – Environmental impact of polymers.
- End of unit summative assessment.

##### What are the standardised homework's?

- Health & Safety
- Product Analysis
- Joining woods
- How to finish materials

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### Year 8 Design and Technology

Refer  
to

Term 1 – September to December  
Term 2 – January to March  
Term 3 – April to July

#### Developing independent workshop skills – Lighting project

##### What are the students learning?

- Health & Safety in the workshop.
- Analyse the work of past and present designer.
- Biomimicry
- How electronic systems can be used in products.
- Developing design specifications.
- Generate 'user-centred' creative design ideas.
- Produce orthographic projections.
- Select and use tools, with more independence, to combine a range of materials into a usable prototype.
- Test and evaluate a completed product against own success criteria / specification.

##### What are the key standardised assessments?

- Design specification (Formative)
- Generation of design ideas (Formative) (Peer)
- Development of Ideas (Peer) (Summative)
- Practical outcome (Summative - Electronics, Enclosure, Final Outcome)
- Evaluation (Self & Peer)

##### What are the standardised homework's?

- Research of Designers
- Generation of Ideas
- Properties of Materials
- Finishes
- Generation of design

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### Year 9 Design and Technology

Refer  
to

Term 1 – September to December  
Term 2 – January to March  
Term 3 – April to July

#### Designing and making – Clock project

##### **What are the students learning?**

- How different cultures can influence design
- Past and present designers
- Solve own design problems / specification – working for a client
- User-centred design / Bio-mimicry – to generate creative design solutions
- Detailed plans and modelling
- Select and use a wider range of materials to manufacture solutions, including CAD/CAM
- Selection of materials based on working properties
- Test and evaluate a completed product against client needs, success criteria / specification.

##### **What are the key standardised assessments?**

- Design specification
- Generation of design ideas
- Development of a solution
- Practical outcome
- Evaluation

##### **What are the standardised homework's?**

- Developments in technology – time
- Research of design movements
- Research of existing designs
- Generating designs
- Orthographic Drawings
- Forces, structures, mechanisms

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- Client feedback