



Design and Technology



Archdiocese of Liverpool

Curriculum intent:

The purpose of the year 10 curriculum is to enable learners to learn in such a way that they develop:

- skills required for independent learning and development;
- a range of generic and transferable skills;
- the ability to solve problems;
- the skills of project based research, development and presentation;
- the ability to apply learning in vocational contexts.

A Pupils will undertake a range of tasks to develop core skills needed to access the coursework NEA. With this, learners are introduced to a context for learning, review previous learning to plan activities, carry out activities and review outcomes and learning enabling learners to apply and extend their learning.

Year 10

TERM 1

Content

OCC Puzzle timber Project
Bottle opener metalwork Project

Concepts and Skills

- 3.1.6 Materials and their working properties
- 3.2.4 Sources and origins
- 3.2 Specialist technical principles
- 3.2.1 Selection of materials or components
- 3.2.6 Stock forms, types and sizes
- 3.1.6 Materials and their working properties
- 3.2.3 Ecological and social footprint
- 3.2.4 Sources and origins
- 3.2.5 Using and working with materials
- 3.2.6 Stock forms, types and sizes

TERM 2

Mobile device stand plastics Project
LED night light electronics Project

- 3.1.6 Materials and their working properties
- 3.1.1 New and emerging technologies
- 3.1.2 Energy generation and storage
- 3.1.3 Developments in new materials
- 3.1.4 Systems approach to designing
- 3.1.5 Mechanical devices
- 3.2.7 Scales of production

TERM 3

CAD GCSE-NEA
Investigation & Research

- 3.2.8 Specialist techniques and processes
- 3.2.9 Surface treatments and finishes
- 3.3.1 Investigation, primary and secondary data

