



# Engineering



Archdiocese of Liverpool

## Curriculum intent:

In Year 11, pupils will work through their two NEA units and prepare for their unit 3 examination.

Unit 1 provides learners with the opportunity to interpret different types of engineering information in order to plan how to produce engineering products. Learners will develop knowledge, understanding and skills in using a range of engineering tools and equipment in order to produce and test an end product.

Unit 2 allows learners to explore how an engineered product is adapted and improved over time, and it offers learners the opportunity to apply their knowledge and understanding to adapt an existing component, element or part of the engineering outcome that they produced for Unit 1.

Unit 3 introduces learners to a range of considerations that impact on engineering design and how modern engineering has had an impact on modern day life at home, work and in society in general.

## Year 11

	Content	Concepts and Skills
TERM 1	NEA Unit 2	<b>Designing Engineering Products:</b> <ul style="list-style-type: none"> <li>2.1 Understanding function and meeting requirements</li> <li>2.2 Proposing design solutions</li> <li>2.3 Communicating an engineered design solution</li> <li>2.4 Solving applied engineering problems</li> </ul>
TERM 2	NEA Unit 1	<b>Manufacturing Engineering Products:</b> <ul style="list-style-type: none"> <li>1.1 Understanding engineering drawings</li> <li>1.2 Planning operations</li> <li>1.3 Using engineering tools and equipment</li> <li>1.4 Implementing engineering processes</li> </ul>
TERM 3	GCSE-Examination Preparation	<b>Solving Engineering Problems</b> <ul style="list-style-type: none"> <li>3.1 Understanding the effects of engineering achievements</li> <li>3.2 Understanding properties of engineering materials</li> <li>3.3 Understanding methods of preparation, forming, joining and finishing of engineering materials</li> <li>3.4 Solving engineering problems.</li> </ul>

