

Year 8 Curriculum Overview (2026-2027)

Subject: Design and Technology

Pewter Casting

Autumn Term	Knowledge & Understanding			Opportunity for Literacy Skills	Employability Skills	Assessment Opportunity
	Composites	Components	Formal Retrieval			
	- Understand user-centred design and its role in meeting customer needs. - Create customer profiles and design briefs. - Understand the relationship between product design and packaging.	- Understand the properties and uses of pewter as an alloy. - Design and manufacture moulds using CAD and laser cutting. - Safely cast and finish a pewter product.	- Recall key vocabulary: pewter, casting, mould, laser cutter, alloy, finishing. - Understand how CAD supports design and manufacture. - Explain the stages of the casting process from design to finished product.	- Problem-solving. - Creativity and innovation. - Practical manufacturing skills. - Organisation and time management. - Digital literacy through CAD. - Self-evaluation and reflection.	- Problem-solving. - Creativity and innovation. - Practical manufacturing skills. - Organisation and time management. - Digital literacy through CAD. - Self-evaluation and reflection.	- Plenary quizzes and questioning. - Assessment of research tasks. - Assessment of making skills. - Teacher feedback during practical work. - Retrieval quizzes. - Assessment of designing, making and evaluating outcomes.

CST across the curriculum –

Saint Maximillian Kolbe – explicitly implementing knowledge about our Saint, including a display and prayer/celebration/reflection on the feast day.

Promoting the Common Good and Service to Others - awards based on our saint who reflects his values at the end of each rotation.

Ethical and Sustainable Design and Creation and the Environment through using recycled materials and promoting sustainability.

Dignity of Work and Human Rights – promoting the importance of these issues when sourcing materials.