Foxford Learning Plan

YEAR: 10

Topic 4: Core Knowledge

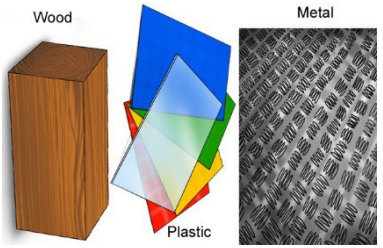
Summer Term

Key Vocabulary

Hardwoods	Timbers that come from deciduous (hardwood) trees such as oak, beech and mahogany
Softwoods	Timbers that come from coniferous (softwood) trees such as pine and spruce
Manufactured Boards	Manmade timber-based boards, often made from scrap or offcut materials
Thermopolymers	Plastic-based materials that can be reheated and reshaped
Thermoset Polymers	Plastic-based materials that once shaped, cannot be reheated and reformed
Specification	A list of criteria that a product should do, be or have
Design Brief	A statement that outlines the problem to be solved
Ferrous Metals	Metals that contain iron. They are magnetic and will rust
Non-Ferrous Metals	Metals that do not contain iron. They are not magnetic and will take much longer to corrode

Key Skills

Over the course of the topic, I will be able to:
Identify the differences between different timber-based materials, knowing some of the common examples
Identify the differences between different metal-based materials, knowing some of the common examples
Identify the differences between different plastic-based materials, knowing some of the common examples
Explain how and why a specification is used when designing and manufacturing a product
Explain how and why a design brief is used when designing and manufacturing a product



I will understand:

1. The importance of using a specification when designing
2. How a design brief is used to guide thinking when designing a product
3. The differences between a range of timber-based materials
4. The differences between a range of metal-based materials
5. The differences between a range of plastic-based materials