Year 7 Long Term Scheme of Learning 2024-25

Subject: Design and Technology

Date	Exams/ Assess	Unit(s) *Project themes maybe taught in an alternative order to what is indicated below.*
2/9/24		**<u>The design process – Timbers – Block Bot</u>** • What is design and technology? Project reflection, the design process key concepts. • Product analysis – key features and functions of products. • Contextual and tasks analysis. • Timbers – origins and characteristics. • Developing a design brief and development of design ideas. • Standard components.
9/9/24		
16/9/24		
23/9/24		
30/09/24		
7/10/24		
14/10/24		
21/10/24		
4/11/24		• Practical make activity. • Health and safety in the workshop. • Knowledge and understanding of materials, process and techniques used to create functional products. • Manufacturing plans.
11/11/24		
18/11/24		
25/11/24		
2/12/24		
9/12/24		
16/12/24		
6/1/25		**<u>Developing design ideas – Polymers – Phone Stand</u>** • What is design and technology? Project reflection, the design process key concepts. • Product analysis – key features and functions of products. • Contextual and tasks analysis. • Communication techniques. • Isometric and perspective drawing. • SCAMPER design development.
13/1/25		
20/1/25		
27/1/25		
3/2/25		
10/2/25		
24/2/25		• Computer Aided Design / Manufacture. • Polymers and forming processes. • Standard components. • Manufactured boards. • Practical make activity
3/3/25		
10/3/25		
17/3/25		
24/3/25		
31/3/25		
21/4/25		**<u>Technological advancements – Mini LED light</u>** • Project reflection. • Advancements in technology. • Ergonomics. • Design sketch work. • Prototype card modelling techniques.
28/4/25		
5/5/25		
12/5/25		
19/5/25		
2/6/25		• Product analysis and task analysis. • Development of design ideas. • Computer Aided Design / Manufacture. • Simple components. • Product assembly. • Evaluation.
9/6/25		
16/6/25		
23/6/25		
30/6/25		
7/7/25		
14/7/25		