Year 10 – GCSE DESIGN TECHNOLOGY Programme of Study

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Educational toy project. (A mock piece of coursework). An introduction the DT GCSE Key content covered: Design context/spider diagram/research options Mood board Analysis of existing products Client profile Specification Design ideas Developed idea Modelling/testing. Exam starter questions. Milestone Assessment: An exam style test on Timbers and Manufactured boards	Educational toy project. (A mock piece of coursework) Key content covered:	Computer aided design and computer aided manufacture. Key content covered: What is CAD/CAM? Using CAD software 2D Design & Sketchup Tutorials in software Presenting your mock up through CAD Advantages of CAM Pictorial details. Technical details. Modifications and further developments. Milestone Assessment: Fully rendered technical drawings using CAD	Materials research. Key content covered: Development in new materials. Smart and Modern Materials. Thermoforming and thermosetting polymers. Ferrous and non ferrous metals. Papers and boards. Design task using gained knowledge Milestone Assessment: Focussed practical task responding to a brief.	Exam topics. Investigating resources Key content covered: The exam and how to revise What does the format look like? Materials. Smart Materials. Electronics. Mechanical devices. DT and the 21st century. Designers. Milestone Assessment: An exam style test on topics covered.	Start of DT GCSE coursework Section A: Identifying and investigating design possibilities. Key content covered: • The contextual challenge • Analysis of contexts • Developing a client