



Product Design and Textiles Exam Information

Summer 2022

Subject	GCSE D&T (both Product Design and Fashion and Textiles)
Paper Name	Component 1: Design and Technology in the 21 st Century
Length of paper	2 hours
Exam date	Weds 15 th June
Topics	<p>Core knowledge and understanding</p> <ul style="list-style-type: none">• The impact of new and emerging technologies.• Developments in modern and smart materials, composite materials and technical textiles.• How electronic systems provide functionality to products and processes, including sensors and control devices to respond to a variety of inputs, and devices to produce a range of outputs.• The functions of mechanical devices, to produce different sorts of movement, changing the magnitude and direction of forces. <p>In-depth knowledge and understanding This information applies to each of the following sections:</p> <ul style="list-style-type: none">• Natural and manufactured timber• Thermoforming and thermosetting polymers• Natural, synthetic, blended and mixed fibres; woven, non-woven and knitted textiles