

Curriculum Area: Design and Technology Textiles (ERI)

Exam board: EDEXCEL

Course title: Edexcel 9-1 Design and Technology

Specification link: <https://qualifications.pearson.com/en/qualifications/edexcel-gcses/design-and-technology-2017.html>

Part 1: Content covered so far in the course

Units or topics covered up until March 08 2021:	Approximate dates of coverage (mm/yyyy)	How was learning assessed for this unit or topic? Include duration of assessment.	Was the assessment carried out in controlled conditions?
NB: * indicates content covered during period of school closure			
Sampling project; construction and decorative techniques	Sept-Oct 2019	Teacher assessed practical outcomes and written notes	No
Textiles specialist theory: natural and synthetic fibres, woven and non-woven fabrics, physical characteristics, social and environmental challenges, scales of production, stock forms, forces/stresses and reinforcing fabric	Nov-Dec 2019	Teacher assessed in class	No
CORE theory: AC 1.3-1.5	Jan- Feb 2020	Teacher assessed in class	No
CORE theory: AC 1.6-1.16	Feb – March 2020	Teacher assessed in class	No
Mock NEA project	April-May 2020	Teacher assessed in class	No
NEA coursework - investigation *NEA coursework - development	June 2020 – March 2021	NEA	Yes - when completing NEA in school

Part 2: Mock Exam evidence

Units or topics covered in the November mock exam(s)

Section A, Core Content

- Properties of materials; cedar wood, cast iron, polyester, solid white board
- Mathematical question; calculating percentages
- Negative effects of decreasing manufacture of items
- Isometric drawings
- Properties of calico fabric
- Drawing accurate nets
- Properties of acrylic and stainless steel
- New and emerging technologies being used to reduce carbon footprint
- New and emerging technologies and their impact on apprenticeships in the workforce
- Electronic component diagrams and symbols
- Electronic programmable component flowcharts e.g. decision outputs
- Bar chart graphs and analysing data from them
- Design strategies to generate initial design ideas e.g. team collaboration, analysing existing products etc.

Section B: Textiles specialist theory questions

- Using a product specification to modify or develop a design (this is a design question – remember labels/magnified drawings/explain your ideas/make sure it meets the requirements in the specification!
- Upcycled fabrics – advantages
- Joining fabrics together – how to sew an accurate seam
- Batch production methods for cutting lots of fabric at the same time e.g. using CAD/CAM
- Surface finishes for decoration
- Stock sized bias binding – advantages
- Properties of woven nylon fabric
- Fireproofing treatment for fabrics
- Woven twill fabric properties
- Impact on the environment of dyeing fabrics
- Environmental impact and social footprints; trend forecasting, impact on farming communities and ease/difficulty of recycling and disposal

Part 3: Content that will be assessed by 01 April 2021

NB: all subjects should complete at least one assessment by this date. If NEAs are currently being completed in subjects that contain coursework components, then work on these should cease by 01 April 2021 in line with existing long-term plans.

Units or topics that will be assessed	Number of lessons that will be allocated to preparation for this assessment	Duration of assessment
NEA Understanding how to create a detailed specification	1	No timed assessments.
NEA Understanding and analysis of the client's needs	1	Students will use one lesson to complete one NEA page/topic.
NEA Analysis of existing products	1	
NEA Create a variety of idea using a range of technical communication skills	1	
NEA Create a range of developed designs in response to the specification	1	
NEA Review Design Ideas and create a final concept	1	