

# A Level Product Design

The Pearson Edexcel Level 3 Advanced GCE in Design and Technology (Product Design) consists of one externally examined paper and one non-examined assessment component.

## Component 1

**Written examination:** 2 hours 30 minutes

50% of the qualification (120 marks)

### Content overview

Topic 1: Materials

Topic 2: Performance characteristics of materials

Topic 3: Processes and techniques

Topic 4: Digital technologies

Topic 5: Factors influencing the development of products

Topic 6: Effects of technological developments

Topic 7: Potential hazards and risk assessment

Topic 8: Features of manufacturing industries

Topic 9: Designing for maintenance and the cleaner environment

Topic 10: Current legislation Topic

11: Information handling, Modelling and forward planning

Topic 12: Further processes and techniques

## Component 2

**Non-examined assessment:** 2 hours 30 minutes

50% of the qualification (120 marks)

### Content overview

Student will produce a design portfolio and make a practical product.

Students individually and/or in consultation with a client/end user identify a problem and design context.

Students will develop a range of potential solutions which include the use of computer aided design and evidence of modelling.

Students will be expected to make decisions about the designing and development of the prototype in conjunction with the opinions of the client/end user.

Students will realise one potential solution through practical making activities with evidence of project management and plan for production

