



Candidate Name	
Current School	

# Design Technology

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Lower Sixth (Year 12) examination

**SAMPLE PAPER**

Entry 2020

Time allowed: 45 minutes

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- Use black ink or ball-point pen.
- If pencil is used for diagrams/sketches it must be dark (HB or B). Coloured pens, pencils and highlighter pens must not be used.
- Fill in the box at the top of this page with your name.
- Answer **all Section A** questions and **one question from Section B**
- The total mark for this paper is **30**.
- The marks for each question are shown in brackets – use this as a guide as to how much time to spend on each question.

You will be assessed on your ability to solve the problem set in a CREATIVE AND INNOVATIVE way. Answers must be on the answer sheets provided using sketches and notes to explain your proposed solutions.

**Answer ONE question only from the following TWO questions.**

1. Parents prefer their children to drink fruit juice rather than fizzy drinks. Design three different, hand-operated devices, for home-use, that can extract the juice from apples.



2. Very often gardeners need to sieve earth to remove stones. Manual shaking of a sieve can be very time consuming and back-breaking work. Design three distinctly different hand or machine operated devices that would each accept a bucket full of earth and sieve it to remove stones down to a diameter of twenty millimetres.



Creativity the 3 Concepts	/10
Reasoning	/5
Technical knowledge	/5
<b>Total for Section B</b>	<b>/20</b>