

Monday 13 May 2024 – Afternoon

**AS Level in Design and Technology:
Product Design**

H006/01 Principles of Product Design

Time allowed: 1 hour 45 minutes

You can use:

- a ruler (cm/mm)
- a scientific calculator
- geometrical instruments



Please write clearly in black ink. Do not write in the barcodes.

Centre number

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Candidate number

--	--	--	--

First name(s)

--

Last name

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INSTRUCTIONS

- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided. You can use extra paper if you need to, but you must clearly show your candidate number, the centre number and the question numbers.
- Answer **all** the questions.
- Where appropriate, your answer should be supported with working. Marks might be given for using a correct method, even if your answer is wrong.

INFORMATION

- The total mark for this paper is **90**.
- The marks for each question are shown in brackets [].
- Quality of extended response will be assessed in questions marked with an asterisk (*).
- This document has **20** pages.

ADVICE

- Read each question carefully before you start your answer.

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Guillaume Favre

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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at 24 1 c in a calorimeter the temperature increases to 25 2 c as agcl s forms assuming the specific heat of the solution and
products is 4 20 j g c calculate the approximate amount of heat in joules produced

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c and the change in temperature is 50 c 20 c 30 c plugging these values into the equation we get $q = 75.0 \text{ g} \times 1 \text{ cal/g} \times 30 \text{ }^{\circ}\text{C} = 2250$
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