

(a) Answer part (a) here. [4]

- 1. ....
- .....
- 2. ....
- .....
- 3. ....
- .....
- 4. ....
- .....

(c) Develop and sketch **three** separate ideas. [12]

(b) Answer part (b) here. [4]

continued overleaf

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**DESIGN & TECHNOLOGY**

Paper 1 Product Design

Answer sheet 1 of 2

**0445/13**  
**May/June 2022**

Answer sheet 1 of 2.  
Write your centre number, candidate number and name in the spaces provided on this sheet and sheet 2.  
Write the number of the question you have answered in the space provided.  
Sufficient space is provided for your answers on the two answer sheets so there is no need to use other sheets.

Centre number .....

Candidate number .....

Name .....

Question number .....

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part (c) continued.

(d) Evaluate your ideas.

**Idea 1** .....

.....

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.....

.....

**Idea 2** .....

.....

.....

.....

.....

**Idea 3** .....

.....

.....

.....

.....

Choose **one** idea to develop and justify your choice.

**Chosen idea** .....

**Justification** .....

.....

.....

[8]

(e) Draw the full solution to the problem here.  
Include construction details and important dimensions. [12]

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**DESIGN & TECHNOLOGY**  
Paper 1 Product Design  
Answer sheet 2 of 2

**0445/13**  
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Answer sheet 2 of 2.  
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Write the number of the question you have answered in the space provided. Sufficient space is provided for your answers on the two answer sheets so there is no need to use other sheets.

**Centre number** .....

**Candidate number** .....

**Name** .....

**Question number** .....

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(f) Answer **part (f)** here. [4]

- 1. **Material** .....
- Reason** .....
- .....
- 2. **Material** .....
- Reason** .....
- .....

There is no need to write or draw here unless you wish to continue part of a question. The question number(s) must be clearly shown.

(g) Answer **part (g)** here. [6]