ENGLAND GCSE DESIGN AND TECHNOLOGY OCR · UNIT 4 · 5 QUESTIONS

Design Thinking, Technical Understanding and Manufacturing — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button so it can be fixed.

1

A hammer head is fixed to its handle with a wedge. Why is the wedge used?

- A To make the hammer lighter than air, in some situations
- B To make the head spin freely
- C To paint the handle a bright colour
- D To spread the handle and lock the head in place

Understand It with Pulse | Flag a mistake

2 **A lever lifts a load of 60 N with an effort of 20 N. What is the mechanical advantage?**

- A 12
- B 30
- C 3
- D 2

Understand It with Pulse | Flag a mistake

3 **Why is CAM useful in manufacturing?**

- A Parts can be made accurately and repeated exactly
- B Parts can be made without any material, in some situations
- C Parts never need to be checked
- D Parts are always made by hand

Understand It with Pulse | Flag a mistake

4

Why are programmable components useful?

A The circuit never needs any power

B The circuit cannot be changed once built, in some situations

C The circuit has no inputs at all

D The same circuit can be made to behave in different ways

Understand It with Pulse | Flag a mistake

5

Which of these is a temporary joining method?

A Adhesive

B Brazing

C Welding

D A screw

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. D
2. C
3. A
4. D
5. D

© 2026 Brett Robbins. All Rights Reserved.