ENGLAND GCSE DESIGN AND TECHNOLOGY AQA · UNIT 1 · 10 QUESTIONS

New Technologies, Energy and Materials — 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 cordless drill has a case made from a thermoplastic. What is a thermoplastic?

- A A plastic that softens when heated and can be reshaped
- B A plastic that sets hard when heated and stays hard, in some situations
- C A plastic that is made from wood pulp
- D A plastic that melts in cold water at once

Understand It with Pulse | Flag a mistake

2 **A wooden chair is made from recycled timber. Which material category does timber belong to?**

A Textiles

B Metals

C Timbers

D Polymers

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3 **How do solar panels make electricity?**

A Moonlight is turned into heat by the panels

B Sunlight is stored as coal inside the panels, in some situations

C Sunlight is turned into electricity by the panels

D Sunlight heats water that turns a turbine

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4 **A heater rated at 1 kW runs for 3 hours. How much energy does it use?**

- A 30 kWh
- B 2 kWh
- C 3 kWh
- D 4 kWh

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5 **Why is GRP used for boat hulls?**

- A It is heavy and sinks easily in water
- B It is cheap and breaks after one trip, in some situations
- C It is soft and bends in the sunlight
- D It is strong and light and does not rust

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6

Why is energy stored?

A So it can be thrown away when it is not used, in some situations

B So it can be used at a time when it is needed

C So it can be used before it is ever made

D So it can be changed into a fossil fuel

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7

What is a composite material?

A A material that is always made from wood

B Two or more materials joined to give better properties

C A single material used on its own for a job, in some situations

D A material that cannot be shaped or joined

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8 **How can a new technology help a business?**

- A It can help the business reach new customers
- B It can make the business use only old machines
- C It can make all workers lose their jobs at once
- D It can stop the business from selling any products

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9 **What share of the GCSE is the written paper worth?**

- A 500%
- B 50%
- C 60%
- D 40%

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10 **What is one benefit of using CAM?**

A Identical parts can be made quickly and accurately

B Parts can only be made one at a time slowly

C Parts are always weaker than hand made parts, in some situations

D Parts must be made by hand every time

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ANSWER KEY

1. A
2. C
3. C
4. C
5. D
6. B
7. B
8. A
9. B
10. A

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