ENGLAND GCSE DESIGN AND TECHNOLOGY AQA · UNIT 3 · 10 QUESTIONS

Specialist Technical Principles — 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 hits a nail. The nail is pushed into wood. What force is acting on the nail?**

- A Compression
- B Torsion, in some situations
- C Shear
- D Tension

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2 **A hand saw is used to cut steel bar. The bar is bought as bar stock. What is bar stock?**

- A A long solid length of material
- B Flat material such as a sheet of plywood
- C A hollow long length of material
- D A thick board of timber

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3 **What does repair mean in the six Rs?**

- A Fix a product instead of throwing it away
- B Use a product again for the same job
- C Use less material and less energy
- D Break a product down to make new material

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4 **What is the social footprint of a product?**

A The number of parts the product is made from

B The amount of money the product costs to make

C The effect of the product on the people who make and use it

D The effect of the product on the environment over its life, in some situations

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5 **A block has a mass of 120 g and a volume of 30 cm cubed. What is its density in g per cm cubed?**

A 3

B 4

C 40

D 5

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6 **What is continuous production?**

- A A set number of identical products
- B Very large numbers of identical products
- C A single product made for one customer
- D A product made non-stop day and night

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7 **A rope holds up a heavy weight. What force is acting on the rope?**

- A Torsion
- B Shear
- C Compression
- D Tension

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8 **Why is corrugated card stronger than flat card?**

A Its flat layers make it soft and bendy

B Its outer layers are made from glass

C Its folded middle layer makes it stiff

D Its middle layer is made from steel

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9 **What does varnish do to timber?**

A It soaks into the timber and leaves no coat at all, in some situations

B It gives a clear coat that protects the timber and shows the grain

C It coats steel with zinc to stop rust

D It gives a coloured coat that hides the grain

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10 **What is drilling?**

A Making a round hole with a rotating bit

B Pushing material through a shaped hole, in some situations

C Cutting a shape with a router

D Pouring liquid material into a mould

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ANSWER KEY

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

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