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

# Material Considerations — 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 to let Brett know so he can fix it.

**1** **A workbench top is made from beech. Why is beech a good choice for a workbench top?**

- A It warps as soon as it is cut
- B It is soft and dents very easily, in some situations
- C It is hard and resists dents from tools
- D It cannot be fixed to a frame

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**2** **A model bridge is made from balsa wood. Why is balsa a good choice for a model bridge?**

- A It is stronger than steel
- B It is very light and easy to cut and join
- C It never breaks under load
- D It is heavy and hard to cut, in some situations

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3 **What is brass made from?**

A Copper and tin

B Iron and carbon

C Aluminium and copper

D Copper and zinc

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4 **A block has a mass of 200 g and a volume of 100 cm3. What is its density?**

A 2 g/cm3

B 20 g/cm3

C 200 g/cm3

D 0.5 g/cm3

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5 **Why is plywood strong and less likely to warp?**

- A It is always thicker than solid timber, in some situations
- B It contains no glue at all
- C The grain in each layer runs at right angles to the next
- D It is made from a single thick plank

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6 **What is PVC used for?**

- A Window frames and pipes
- B Drinks bottles that must be clear
- C Flexible clothing that must stretch
- D Cutting tools that must stay sharp

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7 **What is steel made from?**

A Iron with a small amount of carbon

B Iron with a large amount of copper

C Aluminium with a small amount of tin

D Copper with a small amount of zinc

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8 **What is a disadvantage of cotton?**

A It is too strong to cut with scissors, in some situations

B It creases easily and takes time to dry

C It cannot be dyed any colour

D It melts when it is heated

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9 **What is nylon used for?**

A Concrete reinforcement, in some situations

B Clear window panes

C Strong fabrics and gears

D Disposable cups

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10 **What is stainless steel?**

A Steel with no carbon at all

B Steel with chromium added so it resists rust

C Steel with copper added so it conducts better

D Steel that is painted to stop rust

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# ANSWER KEY

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

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