

Technology and Design Department

**AQA**

**Design and Technology:  
Resistant Materials Technology**

**Unit 1: Woods**

5 (a) (iii)



Name .....

Process .....

.....

.....

(2 marks)

7 (a) (i)

Nest of tables



Material .....

(2 marks)

Reason .....

.....

.....

(1 mark)

7 (b) Discuss the environmental impact of using wood to manufacture products.

.....

.....

.....

.....

.....

.....

.....

.....

(6 marks)



© Thinkstock

Name .....  
(1 mark)

Process .....

.....

.....

(1 mark)



© Thinkstock

Name .....  
(1 mark)

Process .....

.....

.....

(1 mark)



Name .....  
(1 mark)

Process .....

.....

.....

**Kitchen stool**



© Thinkstock

Material .....  
(2 marks)

Reason .....

.....

.....

(1 mark)

Original source of the material

.....

(1 mark)



7 (c) Both saws have blades that can be replaced.

Explain why this is important.

.....

.....

.....

.....

.....

.....

.....

.....

.....

*(4 marks)*

7 (d) Compare the effectiveness of using each saw.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

*(6 marks)*

**Wooden chair**



Material .....  
(1 mark)

Reason .....  
.....  
.....  
(1 mark)

Original source of the material  
.....  
(1 mark)

6 (a) Complete the table shown below by correctly naming each manufactured board.

| Manufactured board  | Name                         |
|---|------------------------------|
|  | <p>[1 mark]</p> <p>.....</p> |
|  | <p>[1 mark]</p> <p>.....</p> |

**6 (b)** Give **three** advantages of using Medium Density Fibreboard (MDF) instead of solid natural timber.

Explain each of your answers.

**[2 marks]**

**6 (b) (i)** Advantage: .....

.....

Explanation: .....

.....

**[2 marks]**

**6 (b) (ii)** Advantage: .....

.....

Explanation: .....

.....

**[2 marks]**

**6 (b) (iii)** Advantage: .....

.....

Explanation: .....

.....



# Wood Practice Questions

1 Give two properties of pine.

A) \_\_\_\_\_ B) \_\_\_\_\_

2 Give one use for teak. \_\_\_\_\_

3 Give two Properties of ash.

A) \_\_\_\_\_ B) \_\_\_\_\_

4 A dark coloured hardwood is needed for a jewellery project. What would be a suitable wood?

- |        |                          |              |                          |
|--------|--------------------------|--------------|--------------------------|
| A Oak  | <input type="checkbox"/> | B Mahogany   | <input type="checkbox"/> |
| C Pine | <input type="checkbox"/> | D Blockboard | <input type="checkbox"/> |

5 Which of the following statements describe valid reasons for applying a wood finish? Tick the correct options.

- To help protect the surface from moisture
- To stop it from being dented.
- To save time when finishing.
- To help protect the wood from insect attack.
- To improve the appearance of the grain.
- To cover up the mistakes that have been made.

6 The table contains the names of six wood joining methods. Match descriptions **A,B,C,D,E** and **F** with the methods **1-6** in the table. Enter the appropriate number in the boxes provided.

| Wood joints |   |            |   |               |  |
|-------------|---|------------|---|---------------|--|
|             | 1 | Wood       | 4 | Nails         |  |
|             | 2 | Butt joint | 5 | Housing joint |  |
|             | 3 | Dovetail   | 6 | Lap joint     |  |

- A. A corner joint for boxes, which is strong if glued
- B. A joint used for holding up shelves in a cabinet
- C. A weak fastening, which only relies on the strength of the glue
- D. Permanent fastenings that can be removed with a screwdriver
- E. A very strong joint, which can only be pulled apart in one direction and is used for drawer fronts
- F. A temporary fastening that can be pulled out again after the glue has dried

7 Circle the correct options in the following sentences.

A **firmer / bevel-edged** chisel is used when cutting and angle of less than 90<sup>0</sup>.

A technique called **vertical / horizontal** paring is used to clean out a housing joint that is held in a vice.

8 Fill in the table to show which adhesives would be suitable for the following situations.

| Adhesive          | Situation                                      |
|-------------------|--|
| A) _____<br>_____ | Gluing a piece of indoor furniture together.   |
| B) _____<br>_____ | Gluing an outdoor table for use in the garden. |
| C) _____<br>_____ | Gluing the lining into a jewellery box.        |
| D) _____<br>_____ | Gluing a plastic laminate onto a piece of MDF. |

9 What do each of the acronyms below stand for?

MDF \_\_\_\_\_ B) PVA \_\_\_\_\_

10 Tick the options below which show the most suitable material that would be used.

A material used to make cheap kitchen cabinets.

A Pine  B MDF   
C Oak  D Ash

A material used to make garden furniture.

A Hardwood  B Parana pine   
C Teak  D Mahogany

11 Choose the correct words from the options given to complete the following sentences.

**plywood   hardwood   origins   pine wood   tropical rainforest**  
**sustainable   random   two for one on their own**

When choosing a suitable \_\_\_\_\_ to make a jewellery box for a client, the designer needs to consider the \_\_\_\_\_ of wood. It shouldn't come from a \_\_\_\_\_, but should have been grown in a \_\_\_\_\_ way, where new saplings are planted ( \_\_\_\_\_ ) and the felling is controlled.