



# Turnbull High School

Technical Department

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## Curriculum for Excellence

Knowledge & Understanding

Homework

in

Working with Wood

Name.....

Class .....



## Technical Department-Homework 1

- 1 Briefly explain the meaning of the term "Grain" when referring to timber. (Page2) (2)
2. Wood is classified into two groups name each. (Page 2) (2)
3. Name two types of hardwood. (Page 2) (2)
4. Name two types of softwood. (Page 2) (2)
5. Timber is supplied to the school workshops in different sized sections, sketch two types of section supplied to the workshop. (Page 3) (2)
6. Safety is of major importance in any workshop, list four safety rules which must be observed when working in the workshop. (Page 4) (4)
7. When referring to timber what is meant by the term finishing?(Page 9) (2)

**Total Marks 16**

## Technical Department-Homework 2

1. Name two types of finish which could be used on wood. (Page 10) (2)
  
2. Timber joints are used to join two pieces of timber together; name two factors which would determine what type of joint should be made. (Page 5) (2)
  
3. Sketch a **Butt** joint. (Page 5) (3)
  
4. Sketch a **Dowelled** joint. (Page 5) (3)
  
5. Why are very wide boards in softwood and hardwood very rare? (Page 8) (2)
  
6. In your answer to question number five how has this problem been overcome? (Page 8) (2)
  
7. Briefly explain how the man-made board **Plywood** is constructed. (Page 8) (2)

**Total marks 16**

**Technical Department-Homework 3**

1. Sketch a **Through Housing** joint. (Page 5) (3)
  
2. Sketch a **Stopped Housing** joint. (Page 5) (3)
  
3. Briefly explain how **Blockboard** is constructed. (Page 8) (2)
  
4. Briefly explain how **Chipboard** is constructed. (Page 8) (2)
  
5. What is the most commonly used glue found in the school workshop and state how excess glue should be removed? (Page 12) (2)
  
6. Briefly explain the purpose of the cross pein hammer. (Page 13) (1)
  
7. Saw teeth are usually SET, briefly explain what is meant by this term and the reason for setting the teeth. (Page 13) (3)
  
8. What is the purpose of a hole saw? (Page 13) (1)

**Total marks 17**

## Technical Department-Homework 4

1. Name the two component parts of a **Try Square**. (Page 14) (2)
  
2. Briefly describe the purpose of a marking gauge and name two component parts. (Page 14) (3)
  
3. Name four types of man-made board. (Page 8) (2)
  
4. Sketch a **Ratchet Brace** giving a brief explanation of its purpose. (Page 12) (3)
  
5. Sketch a **Claw Hammer** giving a brief explanation of its purpose. (Page 12) (3)
  
6. Briefly explain how wood is categorised. (Page 2) (2)
  
7. Name a saw used for sawing awkward cuts in wood and state what is unique about this type of saw. (Page 15) (2)
  
8. Name two types of chisel found in the school workshop. (Page 16) (2)
  
9. Name the hammer used to hit chisels. (Page 16) (1)

**Total Marks 20**

## Technical Department-Homework 5

1. What is the purpose of a mortise gauge? (Page 20) (2)
2. What is the most commonly used type of rasp found in the school workshop? (Page 21) (1)
3. What type of plane is used to trim end grain, mitres or interlocking grain? (Page 24) (1)
4. What is the purpose of a Sliding Bevel? (Page 21) (1)
5. State the name of the plane used to trim the bottom of housing joints to a set depth. What other name is this plane known by? (Page 24) (2)
6. A Mitre Square is used to check angles, what are these angles? (Page 17) (2)
7. State two safety precautions which should be observed whilst working in the school workshops. (Page 4) (2)
8. Which joint would be ideal for joining the top rail of a table to the leg. (Page 7) (1)

**Total Marks 12**

**Technical Department-Homework 6**

1. Briefly explain what MDF is and how it is constructed. (Page 9) (2)
  
2. Name two safety rules which must be observed in the school workshop. (Page 4) (1)
  
3. When referring to timber what is meant by the term finishing?  
Name two types of finish which could be applied to wood. (Page10) (3)
  
4. Briefly explain the meaning of the term "Grain" when referring to timber. (Page 2) (2)
  
5. Wood is classified into two groups name each. (Page 2) (2)
  
6. What plane could be described as being the smaller brother of the block plane and what type of planing is it used for. (Page 24) (2)
  
7. Timber joints are used to join two pieces of timber together; name two factors which would determine what type of joint should be made for the construction. (Page 5) (2)

**Total Marks 14**

## Technical Department-Homework 7

1. Name four wood turning chisels. (Page 27) (4)
  
2. Briefly explain the four stages when applying a coat of varnish. (Page 10) (4)
  
3. Describe a method of checking whether a frame carcass is square. (Page 11) (4)
  
4. What is the purpose of a **Fret Saw**? (Page 15) (1)
  
5. Explain the difference between a **Rip Saw** and a **Cross Cut Saw**. (Page 15) (2)
  
6. Name three types of nail. (Page 18) (3)
  
7. What is the purpose of creating a countersink in wood? (Page 19) (3)
  
8. Name the tool used to make a countersink hole. (Page 19) (3)

**Total Marks 24**



**Technical Department-Homework 8**

1. Name two safety rules associated with the pillar drill. (Page 25) (2)
  
2. Briefly explain how the mortise machine cuts a square hole. (Page 28) (1)
  
3. What is the purpose of a face plate? (Page 28) (2)
  
4. Name and describe two tools used in conjunction with the wood turning lathe. (Page 27) (4)
  
5. State the purpose of the “**G**” cramp. (Page 25) (1)
  
6. Briefly explain what a wood turning lathe is used for. (Page 26) (2)
  
7. State the purpose of the **Sash** cramp. (Page 25) (1)
  
8. Name three parts of a wood turning lathe. (Page 26) (3)

**Total Marks 16**

## Technical Department-Homework 9

1. Describe the four stages in preparing a piece of timber for turning (Page 28) (4)
  
2. What is the purpose of a **Revolving Centre**? (Page 26) (2)
  
3. What is the purpose of a **Dead Centre**? (Page 26) (2)
  
4. Briefly describe the purpose of a **Marking Knife**. (Page 20) (2)
  
5. In the space below make a sketch of the type of cut made by a **Rebate plane**. (Page 23) (2)
  
6. In the space below make a sketch of the type of cut made by a **Plough plane**. (Page 24) (2)
  
7. Where would a **Spoke Shave** plane be used? (Page 24) (1)

**Total Marks 15**

**Technical Department-Homework 10**

1. Briefly describe the purpose of **Pincers**. (Page 14) (2)
  
2. In the space below, make a sketch of a cross section (cut through) of a **Bevel Edge Chisel**. (Page 15) (2)
  
3. Sketch the tool used to create the countersink hole in a piece of wood. (Page 19) (3)
  
4. Briefly describe the steps used to apply a varnish to a piece of wood. (Page 10) (7)
  
5. Name two other finishes which can be applied to wood. (Page 10) (2)
  
6. Name the four parts of a mortise gauge. (Page 20) (4)

**Total Marks 20**

**Technical Department-Homework 11**

1. Wood is classified into two groups, name each. (Page 2) (2)
  
2. Sketch a **Dowelled** joint. (Page 5) (3)
  
3. Saw teeth are usually SET, briefly explain what is meant by this term and the reason for setting the teeth. (Page 13) (3)
  
4. Briefly describe the purpose of a marking gauge and name two component parts. (Page 14) (3)
  
5. State two safety precautions which should be observe whilst working in the school workshops. (Page 4) (2)
  
6. Explain the difference between a **Rip Saw** and a **Cross Cut Saw**. (Page 15) (2)
  
7. Briefly describe the steps used to apply a varnish to a piece of wood. (Page 10) (7)

**Total Marks 22**