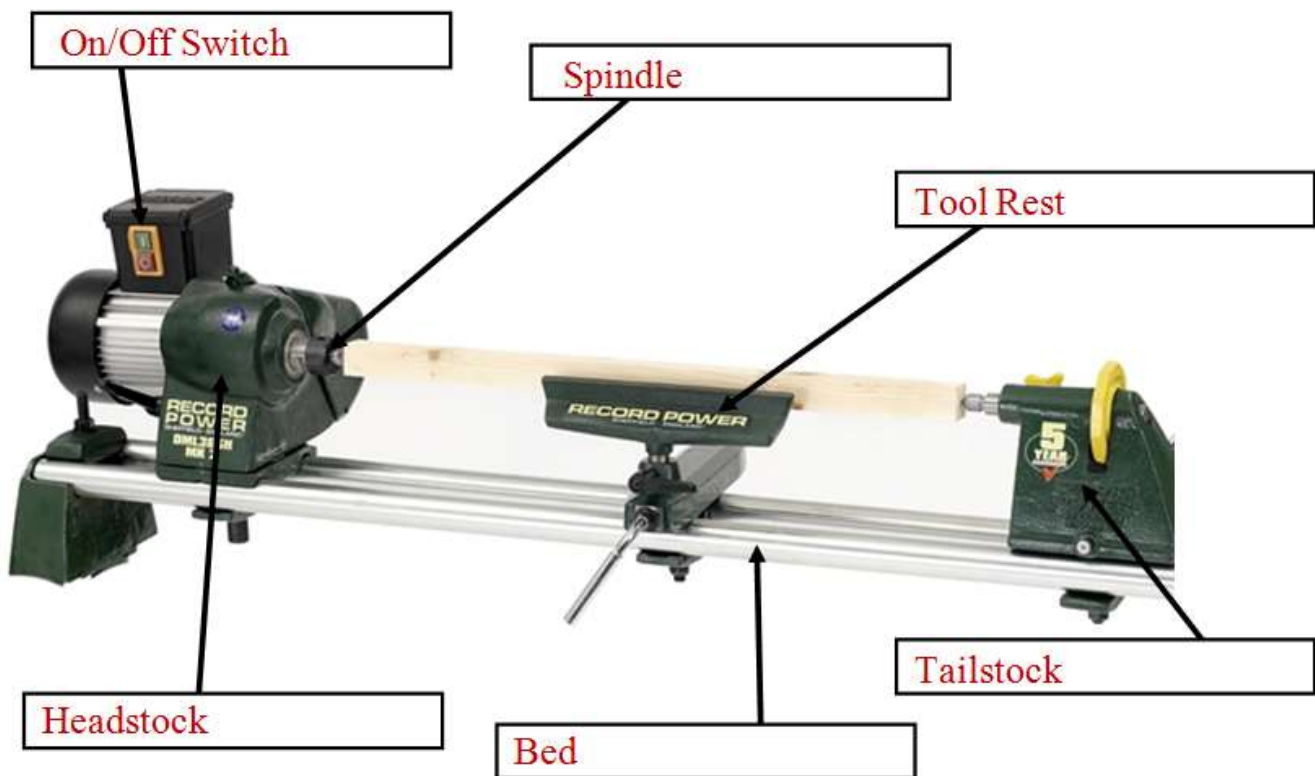


# Lathe Theory Test

## Marking Scheme

1. Label the parts of the Lathe from the following list:  
(Spindle, On/Off Switch, Bed, Headstock, Tool Rest, Tailstock)



(3 marks for each correct answer)

18marks

2. What is the most important piece of Personal Protective Equipment (PPE) that must be worn at all times when using the Lathe?

- Safety Goggles
- Protective Visor

(Except either answer)

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11 marks

3. Outline three safety measures that must be undertaken before operating the lathe?

- Put on Safety Goggles/Protective Visor.
- Take off any jewellery.
- Tie up loose clothing and long hair.
- Roll up sleeves.
- Hands rotate the workpiece to make sure it is not hitting the toolrest.
- Make sure to tighten the lock screw on the tailstock when the workpiece is secure.

(5 marks for each correct answer)

13 marks

4. Give one reason why is it important to rotate the work piece by hand before starting the Lathe?

- To make sure it is secure.
- To make sure it is not hitting of the toolrest.

(Except either answer)

12 marks

5. Why is it important to plane the edges off a square length of timber before setting it up in the Lathe?

- This makes it easier to bring wood into cylindrical shape
- It is less severe on the tool blade

(Except either answer)

13 marks

**NOTE:** The following questions are all multiple choice. Please place a tick/mark in the box beside the answer you feel is the **most suitable**.

6. Why is it important to tighten the locking screw on the tailstock when the wood is secured in the Lathe?

- ☐ A: Stops wood chippings getting inside the tailstock
- ☒ B: The workpiece wont loosen during turning
- ☐ C: Stops the Lathe from vibrating
- ☐ D: Allows oil to be pumped around the tailstock

8 marks

7. How do you find the end centre points of a square length of timber before setting it up in the Lathe?

- ☐ A: Roughly guess by eye
- ☒ B: Use a ruler to draw two diagonals from opposing corners
- ☐ C: Use a callipers
- ☐ D: Use the hanging string method

8 marks

8. When adjusting the tool rest during the turning process it is important to:

- ☐ A: Be careful not to hit the toolrest off the spinning work piece
- ☐ B: Keep two hands on the toolrest at all times
- ☒ C: Turn off the Lathe first
- ☐ D: Take off your safety glasses/ visor so you can see clearer

8 marks

9. What is the callipers instrument often used for during wood turning?

- ☐ A: Sanding the workpiece
- ☐ B: Making sure the workpiece is secure
- ☒ C: Measuring the diameter of the workpiece
- ☐ D: Adjusting the toolrest

8 marks