

Learner Self-reflection 2 - 12927 (v5) Demonstrate knowledge of, select, maintain, and use hand tools for BCATS projects

Student name:

1. Match the parts from the list below with the correct definition.

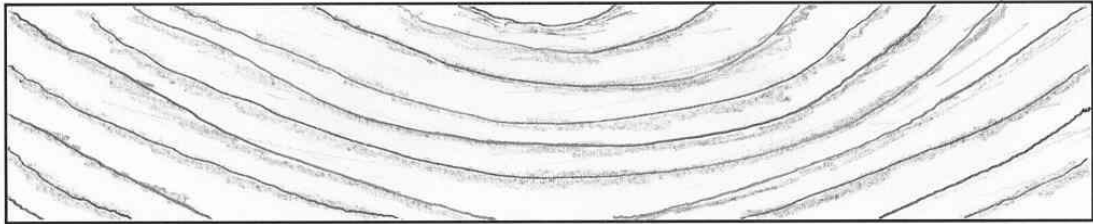
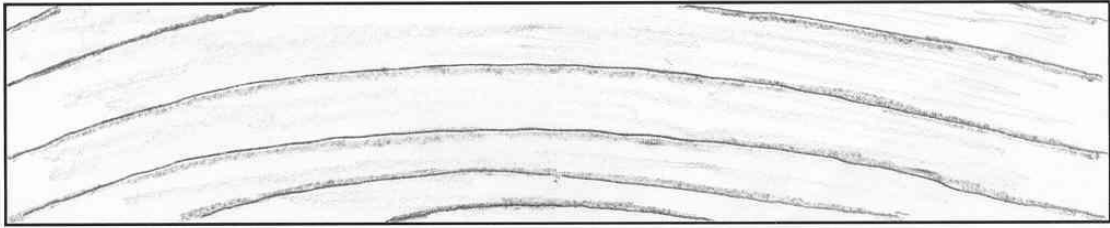
- Lateral adjusting lever
- Adjusting nut or wheel
- Lever cap
- Heel
- Plane blade or iron
- Toe
- Back or Cap iron

Definition	Part
Holds the cutter firmly in position by means of a locking cam and eliminates chatter.	
Curls the shavings over, preventing a tearing cut.	
High carbon steel holds the cutting edge.	
Permits sideways adjustments of the cutter.	
Regulates the thickness of the shavings.	
The leading edge of the plane.	
The back of the plane.	

2. Planing in the direction of the grain provides the smoothest finish. On the range of grain patterns below use arrows to indicate the planing direction that would achieve the finish.

(Note: if completing electronically, you can insert arrows by selecting the 'Insert' tab and clicking on 'Shapes.)





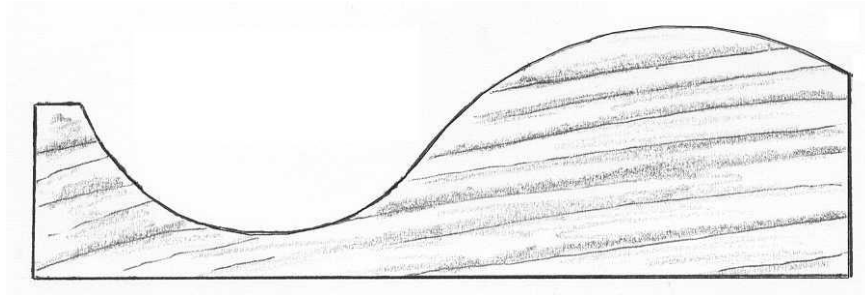
3. When planing the edge of a board you notice that your cut is not square to the face of the board. What needs to be adjusted on the plane to correct the problem?

4. A sharp blade is needed to achieve a fine cut. What other factors in the setting up of the plane will affect the quality of the cut?

5. What is the advantage of using a long plane over a short one when straightening the edge of a piece of timber?

6. Identify the tool or tools needed to smooth the curved surface of the timber shown below for Question 7.

7. On the sketch provided, indicate the direction of cut to get the smoothest finish.



8. During the process of sharpening a chisel on the grindstone, the edge turns a blue colour. What has caused this, what will be the effect on the tool, and how can it be prevented?

Cause:

Effect on tool:

How could this have been prevented?

9. Do chisels need to be reground every time they become blunt? Why or why not?

10. What is the correct grinding angle for a plane or chisel blade?

11. What is the correct honing angle for a plane or chisel blade?