

Planer/Surfacers Notes

Requirements:

Proper eye protection must be worn—operate only with instructor's permission and after proper instructions have been received.

1. Keep your fingers away from the underside of the board as it is fed through the planer. Keep your hands away from the top of the board near the infeed roller.
2. Never stand directly behind the board or in front of the machine when planing, in case of a kickback.
3. Do not look into the throat of the planer from either side when the machine is in operation.
4. Always surface wood with the grain. NEVER run a piece cross grain
5. Support long pieces of wood. These could throw the planer out of adjustment.
6. Make sure the board is longer than the distance between the centers of the infeed and outfeed rolls.
7. Scrape all glue off the stock before running it through the planer.
8. Before you make any adjustments, turn the power off and check to make sure that the cutter head is standing still. Do not remove shavings while cutter head is revolving.
9. Do not force stock into the planer; never lower the table when a piece of stock will not feed through. Turn off the power after the cutter head has stopped completely and then make the necessary corrections.
10. Do not take cuts deeper than 1/16 inch. The maximum SAFE cut depth is 1/16 inch. Plane to one desired thickness at a time.
11. Check all stock for knots, splits, metal particles, and other imperfections. Remove them before you plane the stock. Always use the exhaust system.

Planer/Surfacers Written Test

Use the correct heading and write the answer on your own paper! Use the BEST answer to complete the following:

1. NEVER stand directly behind the board or in front of the machine when planing, in case of a _____
2. It (**Is** **Is not**) SAFE to look into the throat of the planer from either side when the machine is in operation.
3. Plane your board down to (**One** **Two** **Three**) desired thickness at a time.
4. Support long pieces of wood, because these could _____
5. Make sure the board is (**Longer** **Shorter**) than the distance between the centers of the in feed and out feed rolls.
- 6/7. Before you make any adjustments turn the power (**On** **Off**), and then check to make sure that the cutter head is (**Moving** **Standing still**).
8. DO NOT take cuts deeper than (**1/4 inch** **1/8 inch** **1/16 inch**).
9. ALWAYS surface wood (**Against** **With**) the grain. NEVER run a piece cross grain.
10. You (**Can** **Cannot**) SAFELY use the planer on plywood or particleboard.
11. You (**Should** **Should not**) check your wood for imperfections like metal, and scrape off excess glue before you plane it.
12. You (**Should** **Should not**) panic if your wood gets stuck.

List five SAFETY procedures you should do before you operate this or any machine:

13. _____
14. _____
15. _____
16. _____
17. _____

Planer/Surfacers Written Test Key

1. Kickback
2. Is not
3. One
4. Throw the planer out of alignment
5. Longer
6. Off
7. Standing still
8. /16"
9. With
10. Cannot
11. Should
12. Should not

List five safety procedures you should do before operating this or any machine:

13. Tuck in your shirt.
14. Secure your hair
15. Remove jewelry.
16. Wear Z87 safety glasses.
17. Work with a partner.
18. Listen for and report any problems immediately.
19. Make sure that any guards are in place and working.
20. No horseplay.
21. Keep work area clean.
22. Protect hands.

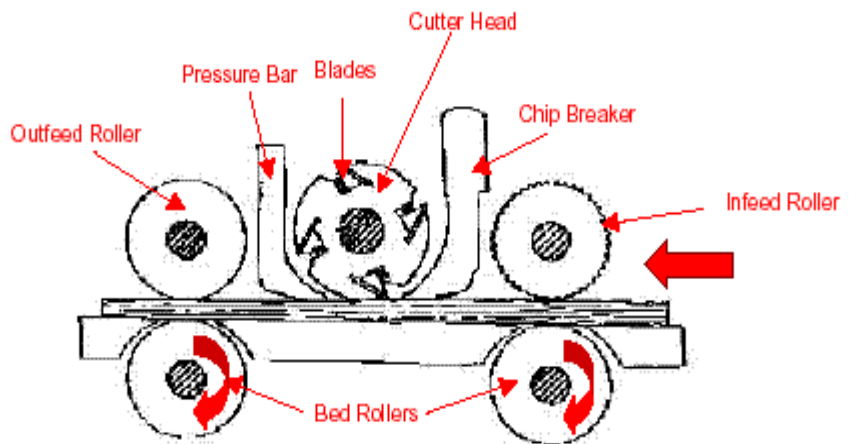
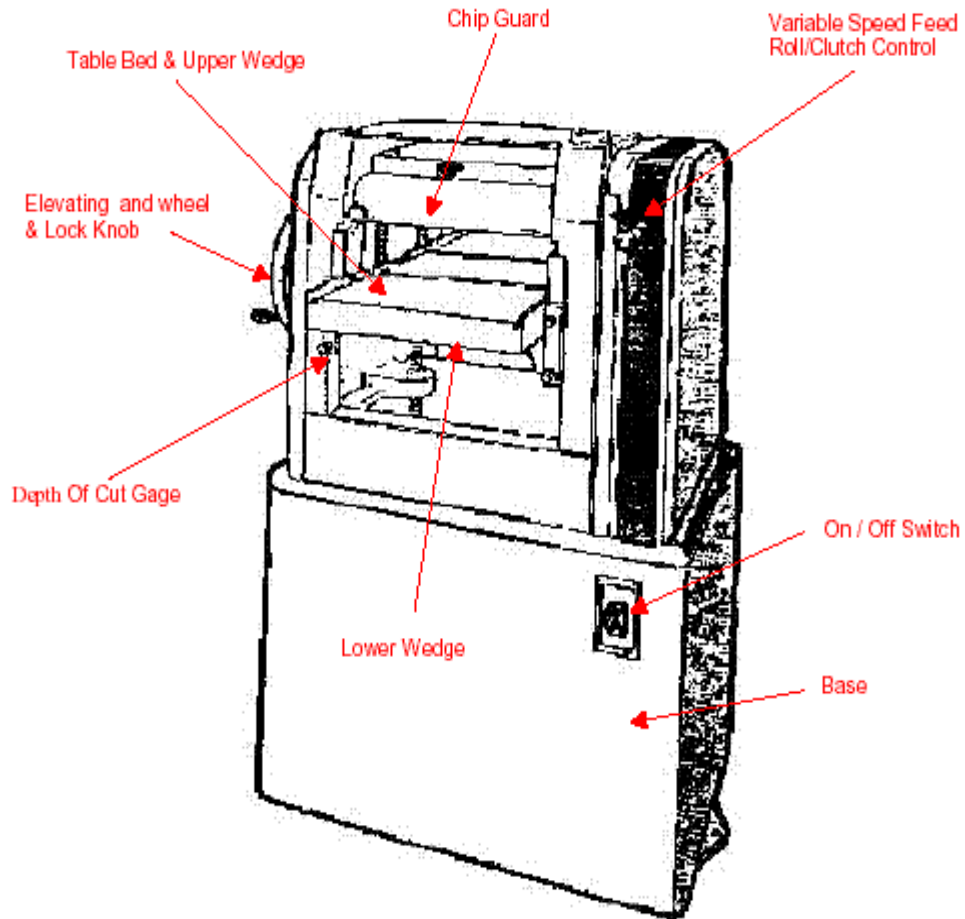
Planer/Surfacers Hands-On Test

Name: _____ Date: _____

Subject: _____ Per: _____

1. What does it do? _____
2. Why is it useful? _____
3. Can the student identify this machine (point to it)? Yes No
4. Identify the following parts:
 On/Off switch Chip breaker Outfeed rollers Infeed rollers
 Infeed table Cutter head Outfeed table
 Pressure bar Clutch Elevating wheel
5. Safety procedures followed before using the machine:
 Shirt tucked in Z87 safety glasses Hair secured
 Checks kick back zone Remove jewelry Gets help from/helps partner as needed
6. Procedures for operating machine (teacher designate):
 Fingers—kept away from the underside and inside of the machine.
 Does not look into the throat of the machine.
 Keeps the wood straight and flat against the table.
 Vents—double-check to make sure that they are open.
 Does not force the wood, take time to readjust as needed.
 Does not panic if wood gets stuck, just readjusts.
 Feet – stands to the side.
7. Makes two (2) safe and successful operations:
1) Yes No
2) Yes No
8. Makes sure the machine has been shut down properly, that the area is clean, and puts tools away. Yes No

Planer/Surfacers Parts



Planer–Surfacer

1. Operate only with instructor's permission and after you have received instruction.
2. Remove jewelry, eliminate loose clothing, and confine long hair.
3. Make sure all guards are in place and operating correctly.
4. Always use proper eye protection.
5. A "backer board" should be used when planing thin stock.
6. Do not force material through planer.
7. Do not remove chip accumulation while machine is running.
8. Do not stand directly behind the machine or in the line of kick back.
9. Do not look into the throat of the surfacer when it is running.
10. Be sure to select the proper speed and depth of cut.
11. The board being surfaced must exceed the minimum length established for that particular machine (check with instructor).

Safety Quiz—Planer—Surfacer

Student Name _____
Class _____
Date _____ Grade _____

1. Instructor's permission is required to operate the machine. T F
2. Eye protection is required to operate machine. T F
3. Chips may be removed while machine is running. T F
4. It is safe to plane wood with loose knots. T F
5. If material becomes stuck, it is safe to stop machine. T F
6. Line of sight should be through the throat of the machine. T F
7. Assistance should be obtained when planing long pieces of wood. T F