

Lathe Set-up Assignment

Name _____ Lathe # _____ Period _____ Score _____

15

Partners Name _____

1. Pass off all the names of the parts of the lathe with two other people.
 - a. Headstock _____ b. Tailstock _____ c. Bed _____
 - d. Drive Center _____ e. Dead Center _____ f. Spindle Lock _____
 - g. Hand wheel _____ h. on / off switch _____ i. Tool Rest _____

Your signature that you know the names of all parts _____

2. Unlock the motor lock. Open both doors to see the belt for the motor. Lift up the motor handle and change the speed to 500 RPM. Pass off _____. Now change the speed to 1800 rpm. Pass off _____. Press down on the motor handle and tighten the motor lock. Close doors.
3. Knock the drive center out of the headstock, making sure you catch it so it is not damaged. Have your partner check you and sign _____. Put it back in the headstock.
4. Loosen the spindle lock on the tail stock. Turn the hand wheel counterclockwise until the dead center comes out. Have your partner check you and sign off. _____.
5. Put the dead center back in the tailstock. Turn the handle so the dead center is out about 1". Make sure the spindle lock is in the keyway. Tighten the spindle lock. Have your partner sign off that you did this correctly. _____.
6. Unlock the tool rest height lock and take out the tool rest. Put it back in and adjust the height to be even with the center of the drive center. Lock it in the correct place. Have your partner sign you off that you did it correctly. _____.
7. Unlock the tool rest and slide it along the lathe bed towards the headstock. Slide it in and out. Now slide it back to towards the tailstock and lock it. Have your partner sign it off. _____ Wax if needed
8. Get a block of wood. Find the center on both ends by marking a straight line from corner to corner. Use a try-square. Get your partner to sign off that it is correct _____.
9. Use either the band saw or a hand saw and cut 1/8" deep saw kerfs in one end of the block. Use a scratch awl and a hammer to mark the center of the other end. Get signed off _____.
10. Change the speed on your lathe to 2630-2650 RPM. Have your partner check off. _____
11. Mount the wood correctly on the lathe. Tighten the hand wheel so the dead center is just snug into the wood. Tighten the spindle lock correctly. Set the tool rest to the proper height. Make sure the speed is set to 2630-2650. Have your partner check that the setup is correct. _____ Have the instructor check your setup. _____.