

Gas Forge 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:

- | | | |
|-------------------------------------|---------------------------------------|---|
| <input type="checkbox"/> Lid | <input type="checkbox"/> Work rack | <input type="checkbox"/> Blower |
| <input type="checkbox"/> Lid handle | <input type="checkbox"/> Air control | <input type="checkbox"/> Gas control |
| <input type="checkbox"/> Fire box | <input type="checkbox"/> Blower motor | <input type="checkbox"/> Igniter switch |
| <input type="checkbox"/> Fire brick | | |

5. Safety procedures followed before using the machine:

- | | |
|--|---|
| <input type="checkbox"/> Shirt tucked in | <input type="checkbox"/> Z87 safety glasses |
| <input type="checkbox"/> Hair secured | <input type="checkbox"/> Checks kick-back zone |
| <input type="checkbox"/> Remove jewelry | <input type="checkbox"/> Gets help from/helps partner as needed |

6. Procedures for operating machine (teacher designate):

- _____
- _____
- _____
- _____
- _____
- _____
- _____

7. Makes two safe and successful operations:

- a) Yes No
- b) Yes No

8. Makes sure that the machine has been shut down properly, that the area is clean, and puts tools away. Yes No

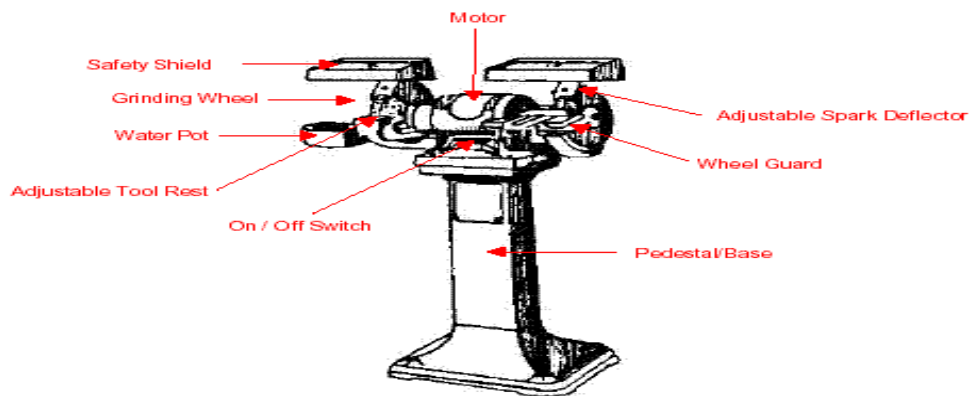
Grinder Notes

Requirements:

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

1. With this machine you must wear proper eye protection, a face shield, pass ALL tests with 100percent, and have your teacher's permission to operate it.
2. Set the tool rest and spark deflector so that they are 1/16 inch to 1/8 inch away from the wheel.
3. Hold work firmly and securely with both hands. Remember that small pieces require special set-ups.
4. Never stand directly in front of the grinding wheel. Stand to the side when you start this machine.
5. Grind using only the face of the wheel, never use the sides.
6. Press material against the wheel with just enough pressure that you cause a steady, even removal of metal. This will happen with practice; do not become discouraged on your first try.
7. Again, move stock slowly and evenly across the face of the wheel, not the sides.
8. Never leave the machine until the grinding wheels have come to a complete stop, even if someone will be using it right after you do.
9. Grinder must be secured to prevent tipping.

Grinder Parts



Grinder Written Test

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

1. With this machine you must wear proper eye protection, a _____, pass ALL tests with 100 percent, and have your teacher's permission to operate it.
2. Set tool rest and spark deflector so that they are (**1/8 inch** **1/4 inch** **1/2 inch**) away from the wheel.
3. Hold work firmly and securely with (**One** **both**) hand(s).
4. Remember that small pieces (**Will** **Will not**) require special set-ups.
5. You should stand (**Directly in front of** **To the side**) when you start this machine.
6. Grind using the (**Face** **Sides**) of the wheel.
7. Press material against the wheel with (**A lot of** **Just enough**) pressure so that you cause a steady and even removal of metal.
8. Again, move stock slowly and evenly across the (**Face** **Sides**) of the wheel.
9. You can leave the machine when the grinding wheels have come to a (**Half** **Full**) stop.

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

10. _____
11. _____
12. _____
13. _____
14. _____