Tool and Machine Identification Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Grade 6 Technology Period: \_\_\_\_\_\_\_\_\_

**Directions: Match the tool or machine name to its picture or description to the right. Write the letter of the answer on the line.**

1. \_\_\_\_\_\_\_\_\_ Phillips Head Screwdriver **A.** A tool normally used for the application of flame or heat which uses propane, a hydrocarbon gas for its fuel.

2. \_\_\_\_\_\_\_\_\_ Flathead/Slotted Screwdriver **B.** 

3. \_\_\_\_\_\_\_\_\_ Scratch Awl **C.** A wood-boring bit shaped like an auger but without a handle, one end of which usually has a square tang to fit the chuck of a brace.

4. \_\_\_\_\_\_\_\_\_ Band Saw **D.** 

5. \_\_\_\_\_\_\_\_\_ Random Orbit Sander **E.** A tool used to either tighten or loosen slotted screws with a single indentation in the head.

6. \_\_\_\_\_\_\_\_\_ Hacksaw

**F.** 

7. \_\_\_\_\_\_\_\_\_ Wood Chisel **G.** A saw with a continuous band of toothed

metal stretched between two or more wheels

to cut material.

**H.** 

8. \_\_\_\_\_\_\_\_\_ Drill Press **I.** Used for rough boring in wood. They tend to cause splintering when they emerge from the workpiece. Avoid splintering by finishing the hole from the opposite side of the work.

9. \_\_\_\_\_\_\_\_\_ Spade Bit **J.** 

10. \_\_\_\_\_\_\_\_ Portable Belt Sander **K.**  A powered vertical drilling machine in

which the drill is pressed to the work

automatically or by a hand lever.

11. \_\_\_\_\_\_\_\_ Planer **L.** 

12. \_\_\_\_\_\_\_\_ Auger Bit **M.** Small electric saw used to cut intricate curves in wood, metal, or other materials.

13. \_\_\_\_\_\_\_\_ Air Compressor **N.** 

14. \_\_\_\_\_\_\_\_ Scroll Saw **O.** A fusible metal alloy used to create a permanent bond between metal work pieces.

15. \_\_\_\_\_\_\_\_ Coping Saw **P.** 

16. \_\_\_\_\_\_\_\_ Twist or Spiral Bit **Q.** A fine-toothed saw, originally and principally made for cutting metal. It can also be used for cutting plastic.

17. \_\_\_\_\_\_\_\_ Solder **R.** 

18. \_\_\_\_\_\_\_\_ Soldering Iron/Gun **S.** It supplies heat to melt solder so that it can flow into the joint between two work pieces.

19. \_\_\_\_\_\_\_\_ Propane Torch

**Directions: Match the tool or machine name to its picture or description to the right. Write the letter of the answer on the line.**  **Any answer letter can be used for any of the tools/machines/materials.**

1. \_\_\_\_\_\_\_\_\_ Soldering Paste/Flux **A.** Used to cut various pieces of sheet metal. Can cut straight and curved.

2. \_\_\_\_\_\_\_\_\_ Channellock Pliers **B.** 

3. \_\_\_\_\_\_\_\_\_ Crescent Wrench **C.**Applied to surfaces that are to be joined by soldering;  flux cleans the surfaces and results in a better bond between the metal.

4. \_\_\_\_\_\_\_\_\_ Claw Hammer **D.** 

5. \_\_\_\_\_\_\_\_\_ C-Clamp **E.** An adjustable spanner designed to grip hexagonal nuts/bolts, with an adjusting screw fitted in the crescent-shaped head of the spanner.

6. \_\_\_\_\_\_\_\_\_ Pipe Wrench **F.** **.**

7. \_\_\_\_\_\_\_\_\_ Metal Brake **G.** Used to bend various types of sheet metal

8. \_\_\_\_\_\_\_\_\_ Metal Shear **I.** 

9. \_\_\_\_\_\_\_\_\_ Combination Wrench **J.** Pound in nails and the “prongs” are used to remove nails. Hold this tool at the end of the handle to increase leverage/power.

10. \_\_\_\_\_\_\_\_ Tin Snips **K.**  

**Directions: Match the tool or machine name to its picture or description to the right. Write the letter of the answer on the line.**  **Any answer letter can be used for any of the tools/machines/materials.**

1. \_\_\_\_\_\_\_\_\_ Sandpaper **A.** Used to clean metal that may contain rust, dirt, etc. prior to painting

2. \_\_\_\_\_\_\_\_\_ Bench Vise **B.** 

3. \_\_\_\_\_\_\_\_\_ Steel Wool **C.** Creates straight and angled cuts in wood

4. \_\_\_\_\_\_\_\_\_ Miter Saw **D.** 

5. \_\_\_\_\_\_\_\_\_ Bar Clamp **E.** Used to remove material in wood and/or to create decorative edges on a piece of wood, such as a chamfer.

6. \_\_\_\_\_\_\_\_\_ Table Saw **F.** 

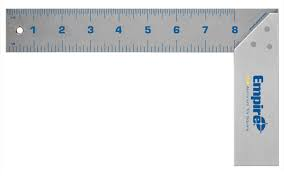
7. \_\_\_\_\_\_\_\_\_ Router **G.** Used to smooth wood and other materials such as plastic.

8. \_\_\_\_\_\_\_\_\_ Radial Arm Saw **H.** 

9. \_\_\_\_\_\_\_\_\_ Rubber Mallet **I.** Used to assemble things when you do not want to ruin the work piece.

**Directions: Match the tool or machine name to its picture or description to the right. Write the letter of the answer on the line.**  **Any answer letter can be used for any of the tools/machines/materials.**

1. \_\_\_\_\_\_\_\_\_ Biscuit Joiner **A.** Used to create a flat-bottom recessed hole in wood.

2. \_\_\_\_\_\_\_\_\_ Masonry Trowel **B.** 

3. \_\_\_\_\_\_\_\_\_ Try-Square **C.** Used to join two edges of wood together. It creates a crescent shaped hole in the wood edges and a wood “football” is used to hold them together using glue.

4. \_\_\_\_\_\_\_\_\_ Forstner Bit **D.** 

5. \_\_\_\_\_\_\_\_\_ Level **E.** Used to make sure things are straight (horizontal-180\*) and plumb (vertical-90\*)



6. \_\_\_\_\_\_\_\_\_ Metal File **F.**

7. \_\_\_\_\_\_\_\_\_ Bench Grinder **G.** A wheel used to sharpen metal (chisels). You can also put buffing and wire wheels on them.

8. \_\_\_\_\_\_\_\_\_ Joiner **H.** 

9. \_\_\_\_\_\_\_\_\_ Hand Plane **I.** A manual method of planing down an edge of a piece of wood. For example: planning the edge of a door so it closes better.

10. \_\_\_\_\_\_\_\_ Mortising Machine **J.** 

**Directions: Match the tool or machine name to its picture or description to the right. Write the letter of the answer on the line.**  **Any answer letter can be used for any of the tools/machines/materials.**

1. \_\_\_\_\_\_\_\_\_ Grout Float **A.** Used to cut various materials including cardboard.

2. \_\_\_\_\_\_\_\_\_ Voltage Tester **B.** 



3. \_\_\_\_\_\_\_\_\_ Wire Strippers **C.** Insert and remove screws, drill holes, insert and remove nuts and bolts, etc.

4. \_\_\_\_\_\_\_\_\_ Diagonal Cutters **D.** 

5. \_\_\_\_\_\_\_\_\_ Utility Knife **E.** Checks to see if there is any power in a wire, such as an electrical outlet or switch.

6. \_\_\_\_\_\_\_\_\_ Wood Rasp **F.** 

7. \_\_\_\_\_\_\_\_\_ Cordless Drill/Impact Driver **G.** Used to cut wires

8. \_\_\_\_\_\_\_\_\_ X-Acto Knife **H.** 

9. \_\_\_\_\_\_\_\_\_ Backsaw **I.** 

**Directions: Match the tool or machine name to its picture or description to the right. Write the letter of the answer on the line.**  **Any answer letter can be used for any of the tools/machines/materials.**

1. \_\_\_\_\_\_\_\_\_ Needle Nose Pliers **A.** A machine in which the cutters rotate

to remove the material from the work

piece present in the direction of the

angle with the tool axis.

2. \_\_\_\_\_\_\_\_\_ Tape Measure **B.** 



3. \_\_\_\_\_\_\_\_\_ Brace **C.** Used to turn a piece of wood into a round object, such as a baseball bat or table leg.

4. \_\_\_\_\_\_\_\_\_ Socket Set **D.** 

5. \_\_\_\_\_\_\_\_\_ Car Jack and Jack Stands **E.** Sander that spins and moves up and down used to sand inside curves in wood

6. \_\_\_\_\_\_\_\_\_ Tire Iron **F. **

7. \_\_\_\_\_\_\_\_\_ Oscillating Spindle Sander **G.** Used to loosen/tighten various sized lug nuts from a vehicle’s wheel

8. \_\_\_\_\_\_\_\_\_ Wood Lathe **H. **

9. \_\_\_\_\_\_\_\_\_ End Mill **I. **