

NC Agricultural Tools and Materials ID

Images and Uses

Revised 2020

1. 45 degree pipe elbow - Making a 45 degree turn with a pipe



2. 90 degree pipe elbow - Making a 90 degree turn with a pipe



3. 90 degree street elbow – Making a 90 degree pipe turn; inside threads (female) on one end and outside threads (male) on the other



4. Abrasive chop saw – Cutting various types and sizes of materials with abrasive wheels



5. Adjustable wrench – Turning various sized nuts and bolts



6. Allen wrench – Turning hex head socket screws



7. Animal clippers – Trimming hair or wool on pets and livestock



8. Aviation snips – Cutting sheet metal



9. Ball peen hammer – Hammering metal



10. Bar clamp – Clamping large sections of wood together



11. Bent nose pliers - Reaching obstructive or awkward places



12. Bolt cutters - Cutting bolts and steel rods



13. Bolt die - Cutting threads on bolts and rods



14. Bolt die stock – Used for holding a bolt die



15. Bolt tap - Cutting inside threads



16. Bolt tap wrench - Holding bolt tap



17. Brick jointer- Smoothing and designing masonry joints



18. Brick trowel - Placing and spreading mortar



19. Bulb planter - Planting and transplanting bulbs



20. Butt hinge - Hinge for narrow facing



21. C clamp - Clamping two or more pieces of metal together



22. Carriage bolt - Bolting wood to wood or wood to metal



23. Castrator – Used for sterilizing male animals



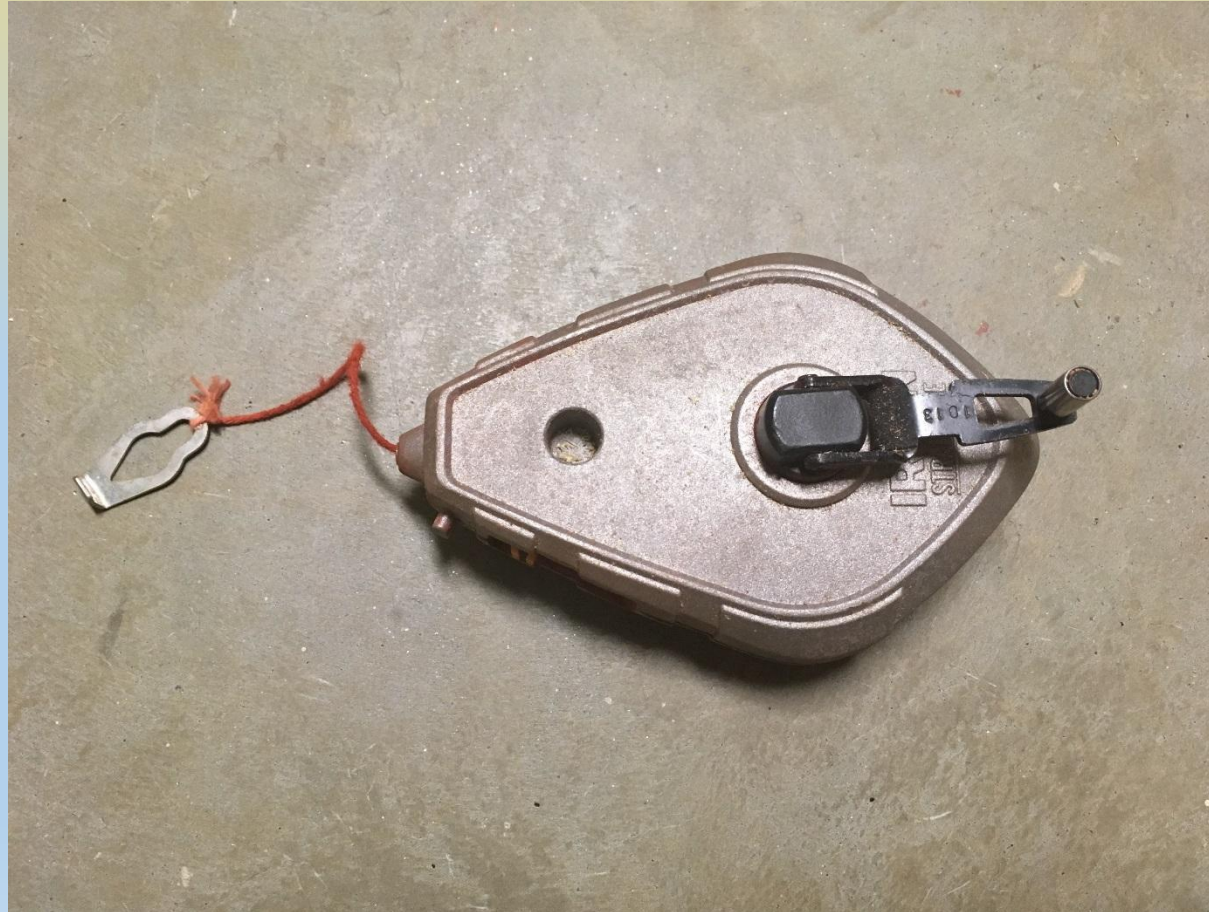
24. Caulking gun – Holding a tube with material for patching holes or sealing cracks



25. Center punch - Starting holes in metal



26. Chalk line reel - Marking straight lines



27. Chipping hammer - Removing slag from welds



28. Circuit breaker - Protecting electrical circuits from overload



29. Clinometer – Measuring heights of objects or elevations of slopes



30. Cold chisel - Cutting metal



31. Combination oil stone – Sharpening and honing cutting tools



32. Combination square - Determining 45° and 90° angles



33. Combination wrench - Turning hex and square nuts and bolts



34. Common nail - Nailing boards together where holding power is desired



35. Compass saw - Cutting wood in close places



36. Compression tester – Providing accurate readings on the pressure inside engine cylinders



37. Concrete finishing trowel - Smoothing concrete



38. Concrete float - Leveling concrete



39. Concrete screws – Anchoring into predrilled holes in concrete, brick or block



40. Coping saw - Cutting curves and irregular cuts



41. Cordless drill - Drilling holes with a tool that uses a battery pack



42. Countersink - Flaring top of hole for recessing head for flathead screw or bolt



43. Curry comb – Removing mud, dirt, and hair from animals' coats



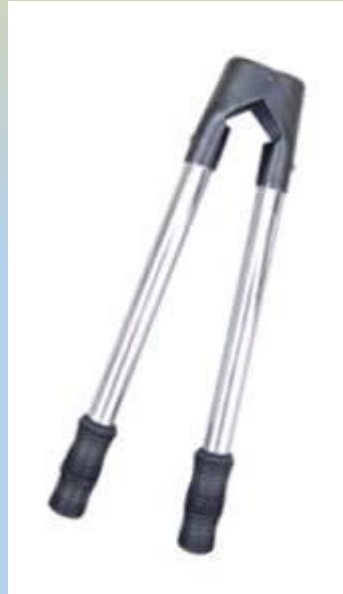
44. Cutting torch - Cutting metal with heat



45. Deep socket - Turning nuts and bolts in depressed areas



46. Dehorner - Removing horns from cattle



47. Diagonal cutting pliers - Surface and diagonal wire cutting



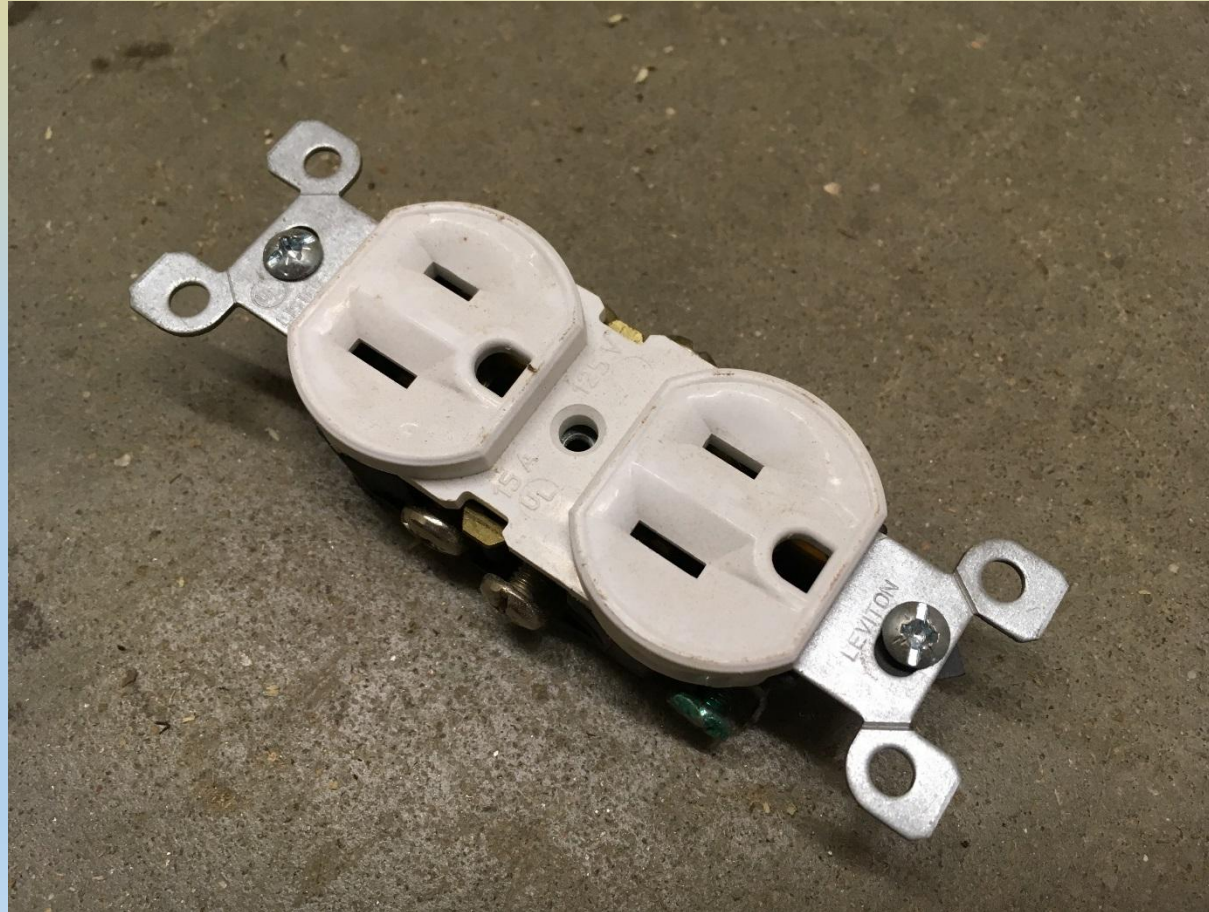
48. Drift punch - Aligning holes



49. Drill press vise - Holding stock while drilling



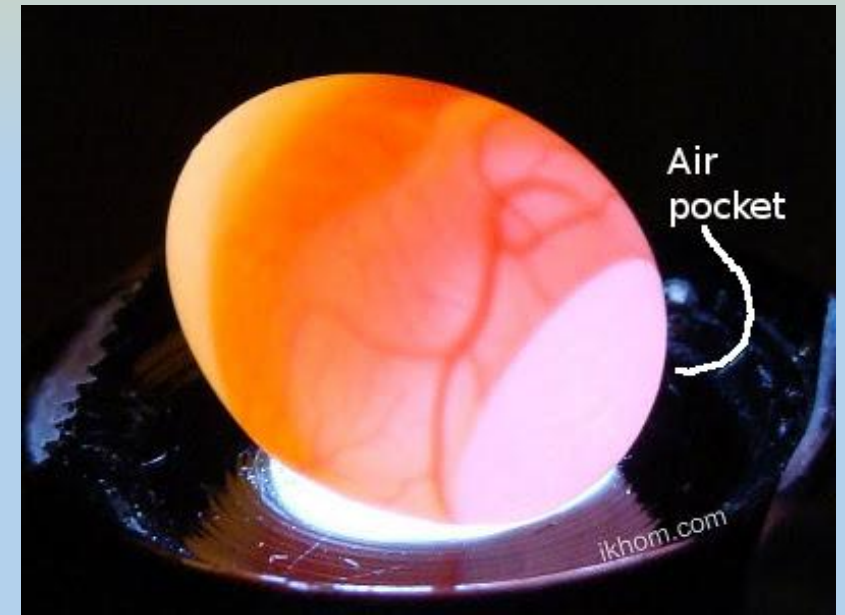
50. Duplex Receptacle - To plug in electrical units



51. Ear tagger - Labeling individual animals for identification



52. Egg Candler - Detecting embryonic development or for evaluating shell eggs



53. Electric multimeter - Performing various tests on electrical circuits



54. End cutting nippers - Cutting ends of wire, nails and small bolts



55. Engineers hammer – Used for pounding hot metal, breaking up concrete or demolition



56. Expansion shield - Anchoring a lag screw into concrete, brick or block



57. Extension – Extending the reach of a socket



58. Eye bolt - Bolt used to attach wire onto



59. Face shield – Protecting face from flying debris while working



60. Fence pliers - Building and repairing wire fences



61. Fence staple – Nailing up fence



62. Finishing nail - Nailing boards where head will not be noticed



63. Flaring tool - Flaring ends of tubing



64. Flathead stove bolt - Fastening wood to metal or metal to metal with wrench leaving a flat surface



65. Flathead wood screw - Fastening wood to wood where a flat surface is required



66. Framing square - Squaring cut corners and laying out stairs and rafters



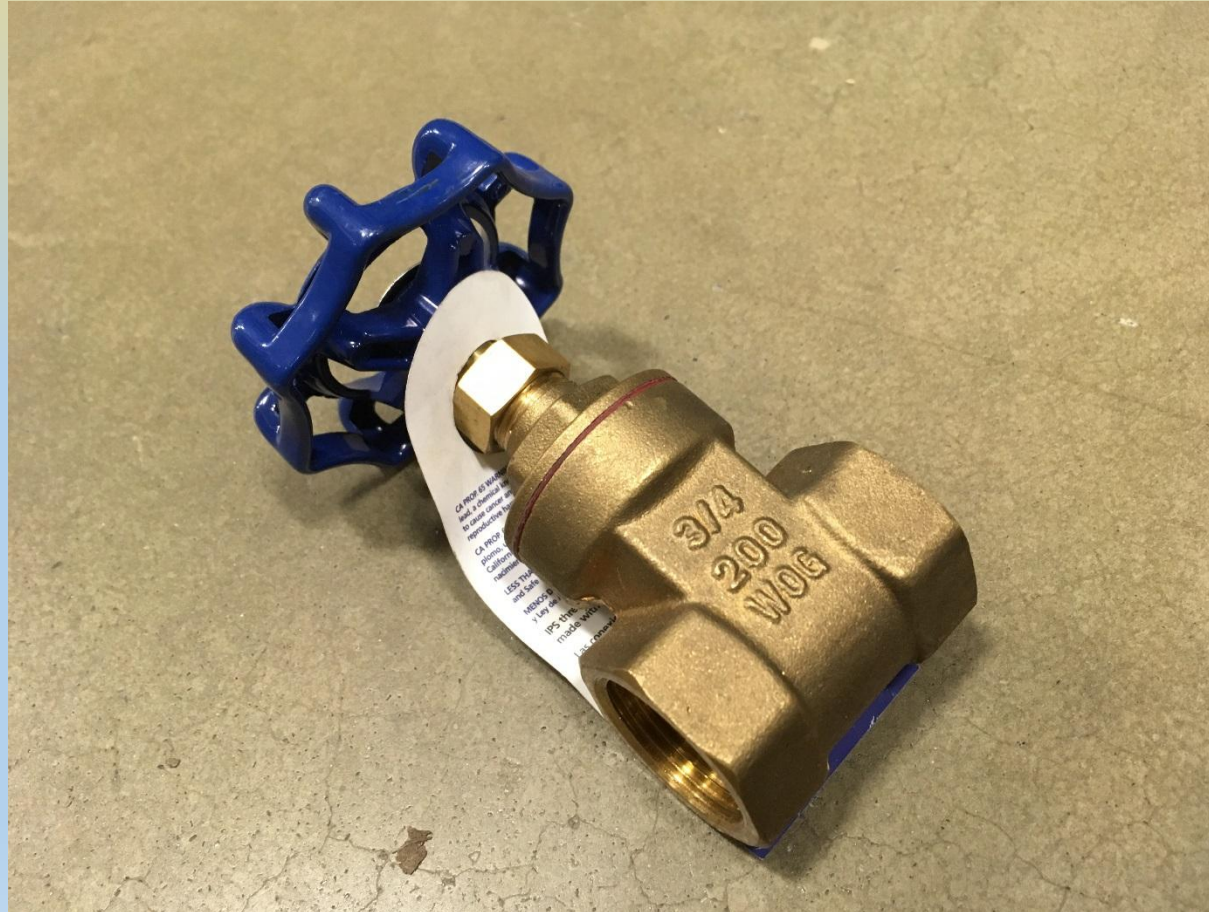
67. Fuse puller - Removing cartridge fuses



68. Garden trowel – Used for smaller garden chores like planting, weeding, and scooping soil or media



69. Gate valve - Cutting off water supply on a main line



70. Glass cutter - Cutting glass



71. Grafting tool - Preparing woody parts for grafting



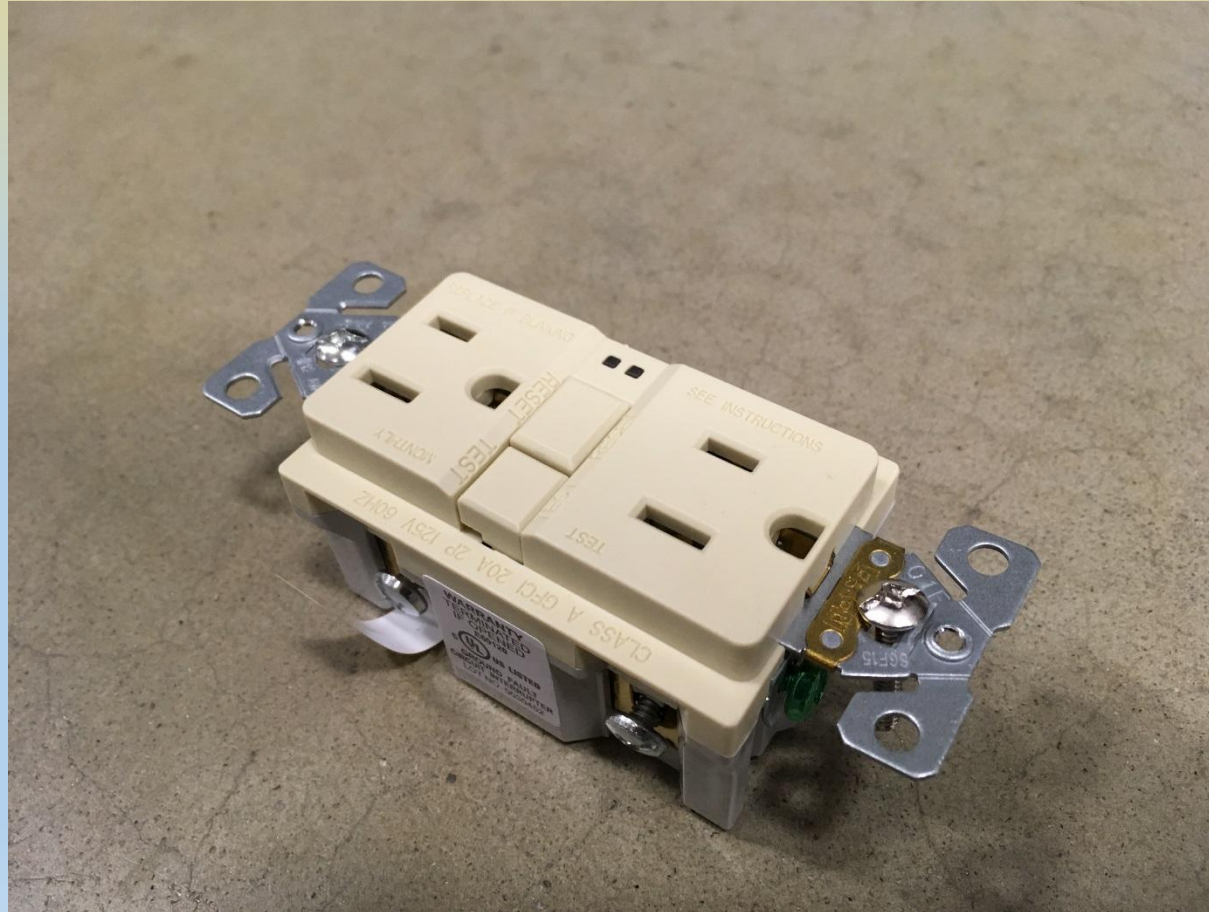
72. Grease gun - Lubricating through grease fitting



73. Groove joint pliers - Gripping when greater pressure is needed



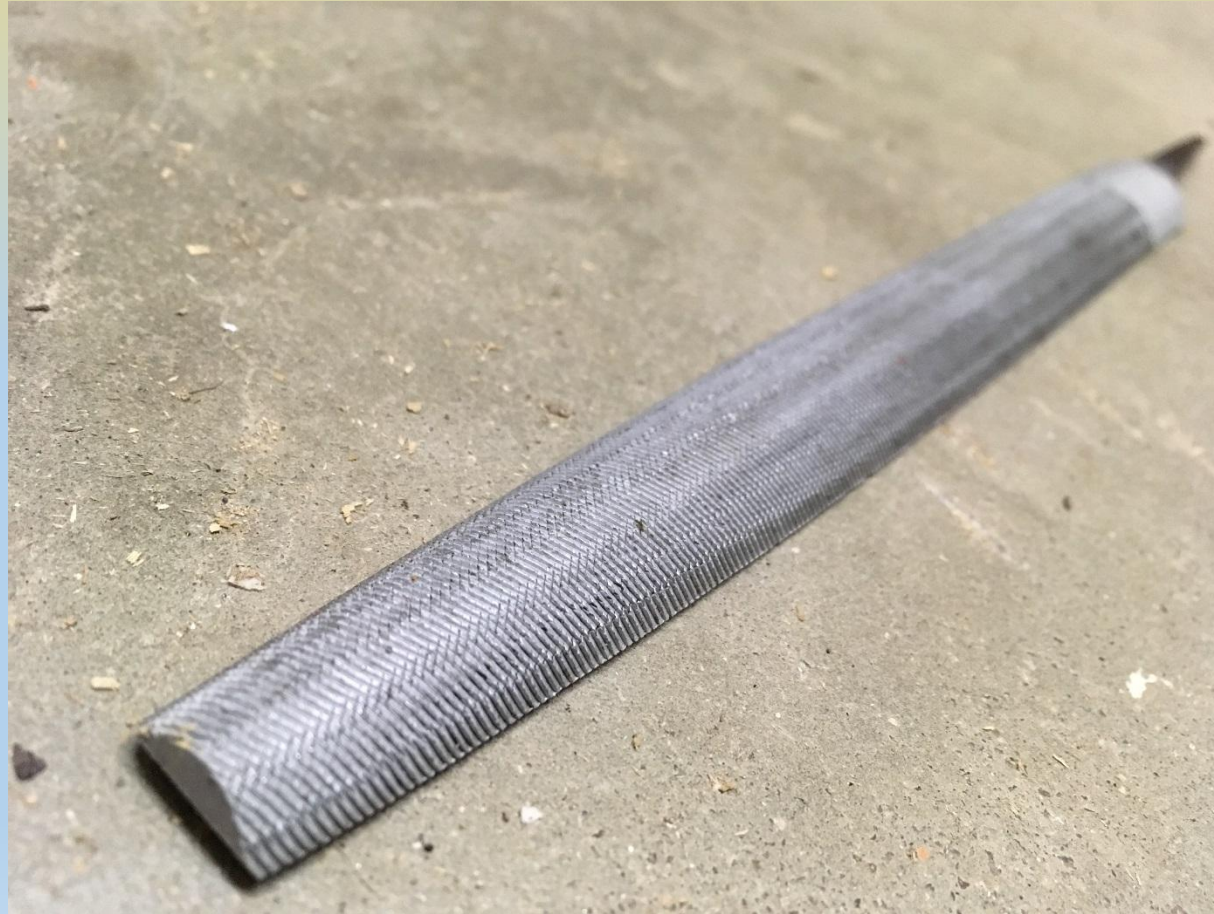
74. Ground fault circuit interrupter - Shutting off power when current flows along an unintended path



75. Hack saw - Sawing metal



76. Half round file - Curved and flat filing



77. Hearing protector – Decreasing hearing exposure to high decibel levels



78. Hedge shears - Trimming and shaping hedges



79. Hinge handle / Flex handle - Socket handle to be used when flexibility is needed



80. Hoof knife - Removing hard and uneven surfaces on an untrimmed hoof



81. Hose bib - Valve for attaching a water hose; turning water supply on and off



82. Implant gun - Injecting growth hormones in animals



83. Impulse sprinkler - Overhead irrigation of plants where rotation is water driven



84. Increment borer - Checking growth rate of trees



85. Junction box – Joining several electrical wires into a circuit



86. Lag screw - Screw used where great pressure to turn is required



87. Level - Leveling and plumbing



88. Line level - Leveling between long distance points



89. Long nose pliers - Reaching into recessed areas



90. Lopping shears - Cutting large branches when pruning shrubbery



91. Machine bolt - Fastening metal to metal with a wrench



92. Machinist's vise - Holding metal firm while working



93. Mason Hammer - Chipping and shaping masonry material



94. Mason level - Leveling and plumbing masonry materials



95. Masonry bit - Boring a hole in concrete, brick or block



96. Masonry nail - Nailing in concrete, brick or block



97. Micrometer – Gauging or measuring small distances or thicknesses



98. Mill file / Flat file - Filing metal



99. Nail gun - Rapid nailing using air, gas, or electricity



100. Nail hammer - Driving nails



101. Nail set - Countersinking nail heads



102. Nut driver - Socket permanently attached to a handle for turning small nuts and bolts



103. Obstruction wrench - Reaching nuts and bolts around obstructions



104. Oil filter wrench – Installing or removing oil filters



105. Open end wrench - Turning square head nuts and bolts



106. Pex coupling – Making hot or cold water supply line connections



107. Pex pinch clamp ring – Securing water supply pipes to fittings



108. Phillips screwdriver - Turning phillips head screws



109. Pin punch - Driving out metal pins



110. Pipe bushing – Connecting pipes of different diameters



111. Pipe cap - Closing the end of a pipe by going over the pipe end



112. Pipe coupling - Joining two pieces of pipe



113. Pipe nipple - Adding length to a piece of pipe



114. Pipe plug - Closing the end of a pipe, threads on the outside



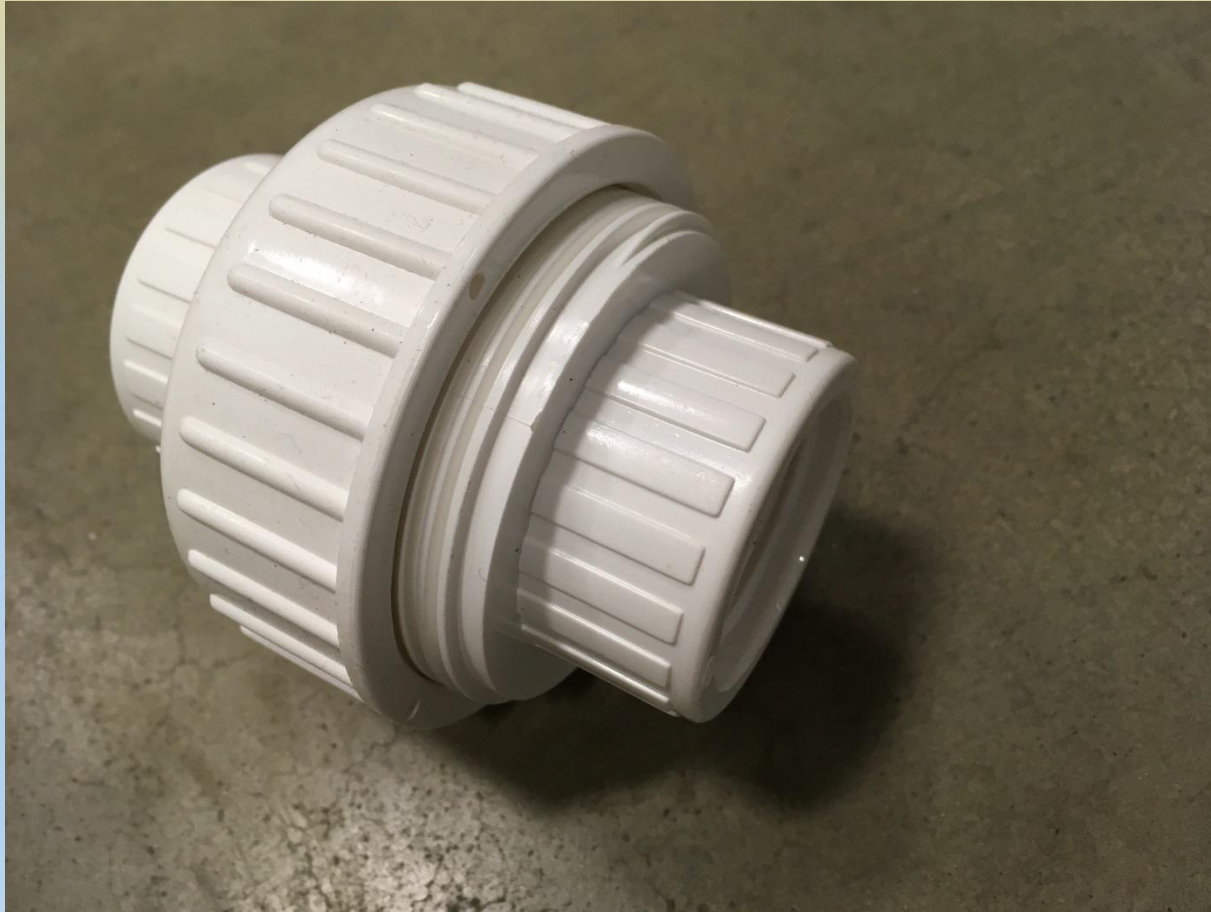
115. Pipe reducer - Reducing pipe size



116. Pipe tee - Joining at 90° angles



117. Pipe union - Joining two pieces of pipe where neither side can be turned



118. Pipe wrench - Turning and holding metal pipe



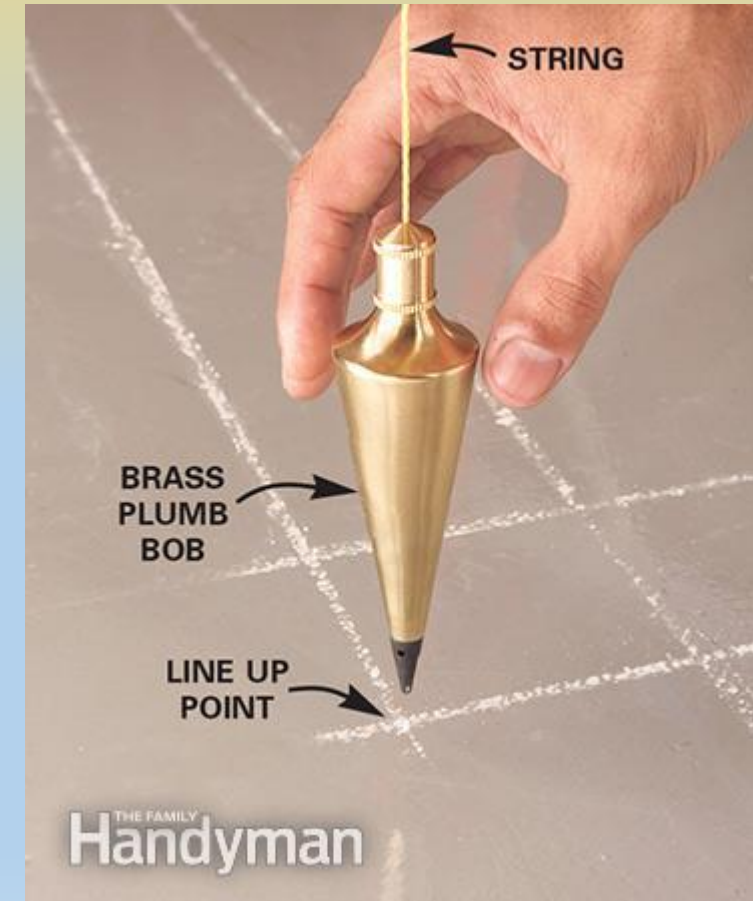
119. Piston ring compressor - Compressing ring for inserting into cylinder



120. Planting bar - Setting out tree seedlings



121. Plumb bob - Vertical plumbing to locate points



122. Pole pruner – Removing elevated or hard-to-reach branches and limbs



123. Portable circular saw - Sawing wood in construction projects



124. Portable electric drill - Drilling holes with an external source of power



125. Portable grinder – Power tool used for cutting, grinding or polishing



126. Portable hammer drill – Power drilling in concrete, brick or block



127. Portable impact wrench – Installing or removing fasteners, lug nuts or lag screws



128. Portable jig saw - Making irregular cuts



129. Portable miter saw – Cutting 90 degree crosscuts as well as various angles



130. Portable reciprocating saw / Sawzall – Cutting various materials with push and pull blade action



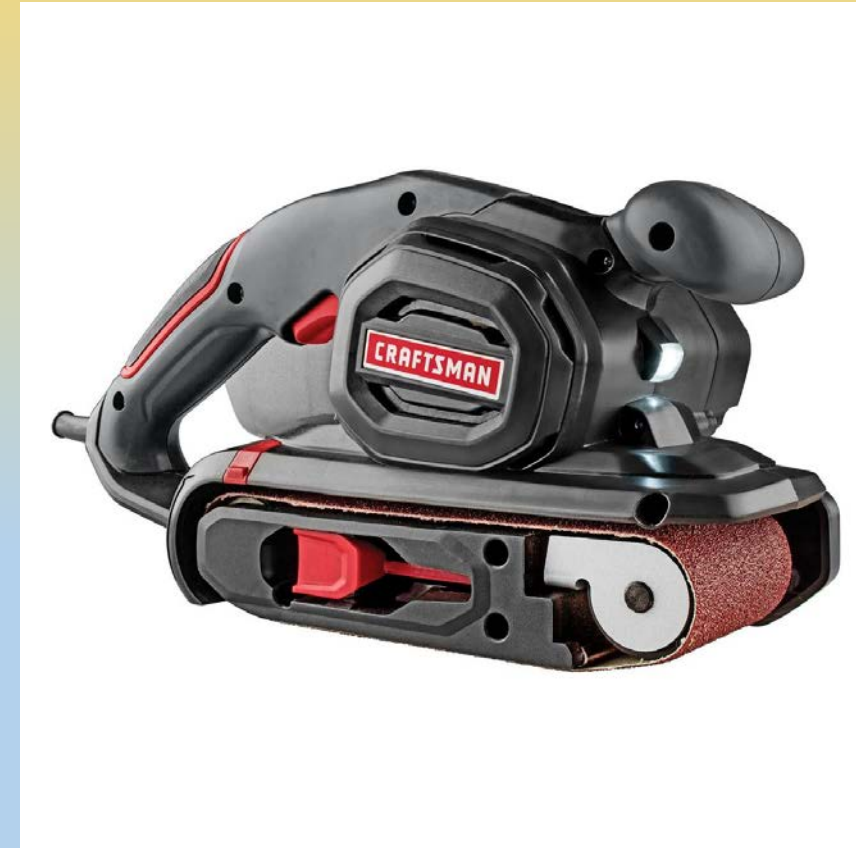
131. Rotary tool – Handheld tool for sharpening, polishing or trimming various materials



132. Portable router – Cutting shapes and designs into wooden surfaces in various locations



133. Portable sander - Power tool used for smoothing surfaces



134. Pruning saw - Sawing limbs from shrubbery and trees and trees



135. Pruning shears - Cutting and shaping shrubbery



136. Putty knife - Applying and smoothing putty



137. PVC cutter - Cutting non-metallic pipe



138. Regular socket - General purpose socket for turning nuts and bolts



139. Respirator – Preventing particles, gases, and vapors from being inhaled



140. Reversible ratchet – Turning sockets in forward and reverse rotations



141. Roofing nail - Nailing tin, aluminum, fiberglass, or asphalt roofing



142. Round file – Filing inside holes



143. Roundhead stove bolt - Fastening wood or metal to metal with a screwdriver or wrench



144. Roundhead wood screw - Fastening wood to wood



145. Rubber mallet - Hammering to avoid marring surface



146. Safety glasses - Protecting eyes from the impact of foreign objects



147. Safety goggles – Protecting eyes from liquid splash, acid vapors, dust, and impact hazards



148. Screw extractor - Removing broken bolts, studs, or screws



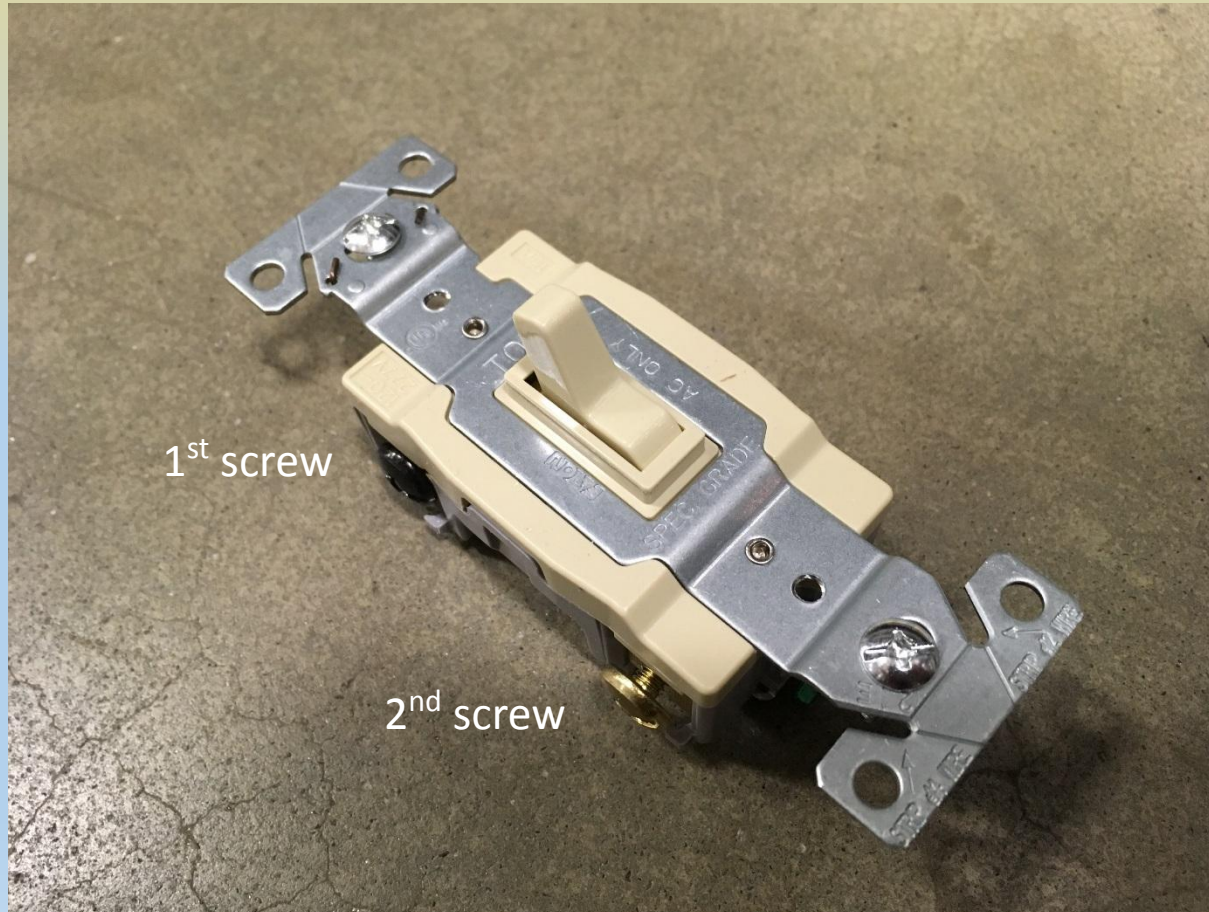
149. Sheet metal screw - Joining two pieces of sheet metal



150. Side cutting pliers - Holding and/or cutting wire



112. Single Pole Switch – Completing a circuit or creating a gap in the flow of electricity



Single pole switches have two screw terminals

152. Sledge hammer - Heavy hammering



153. Slip joint pliers - Adjust for holding various size material



154. Slotted screwdriver - Turning slotted screws



155. Snap ring pliers – Removing or installing internal or external snap rings



156. Soil auger - Boring into soil to get samples



157. Soil tube - Obtaining soil for testing



158. Soldering gun - Melting solder



159. Solderless wire nut - Joining two or more electrical wires



160. Spark plug gauge - Gauging and setting spark plug gap



161. Spark plug socket - Installing and removing spark plugs



162. Spark tester – Checking the condition of the ignition system at each cylinder



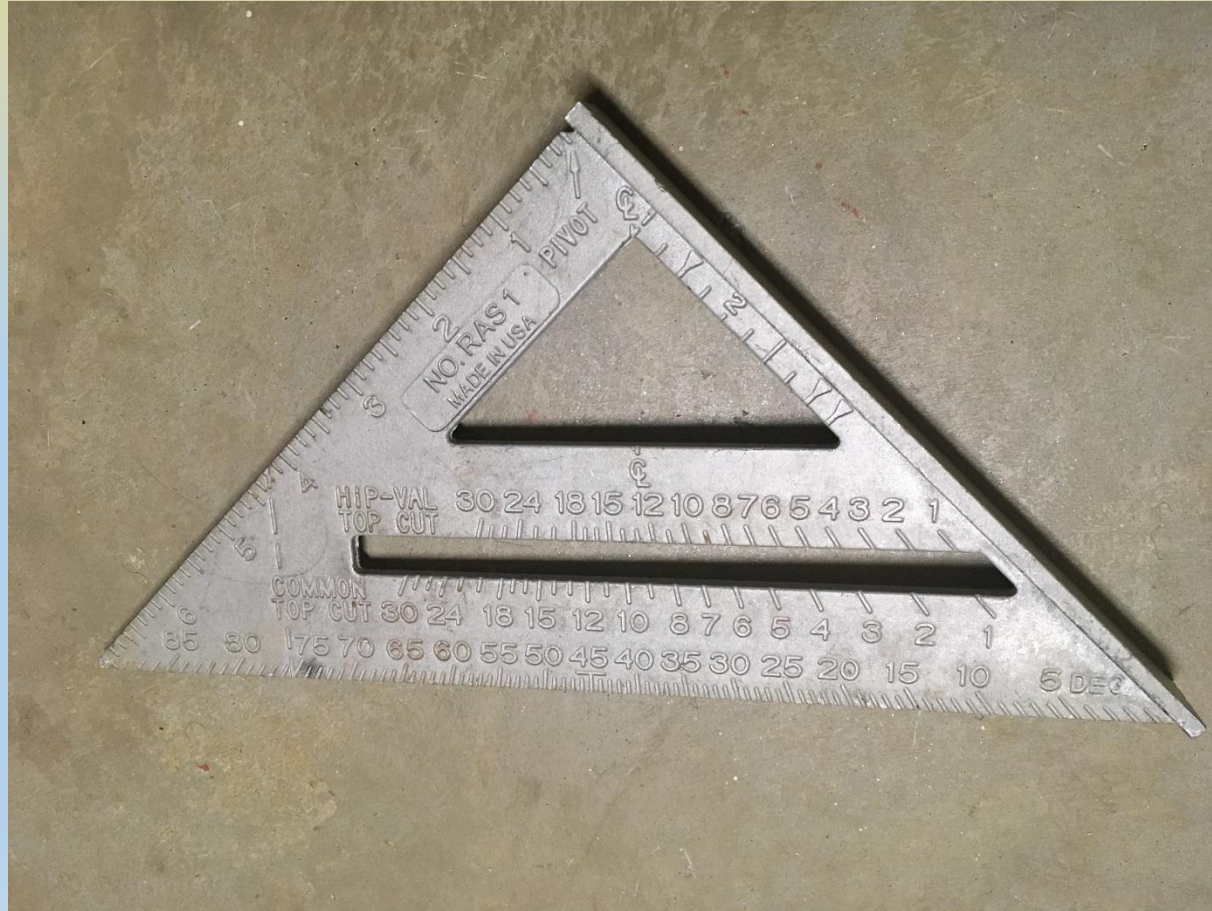
163. Speed bore bit - Wood boring bit for electric drill



164. Speed handle – Used for rapid turning of socket



165. Speed square – Measuring and marking 0-90 degree angles, finding roof pitches, and laying out rafters



166. Straight shank drill bit - Drilling metal



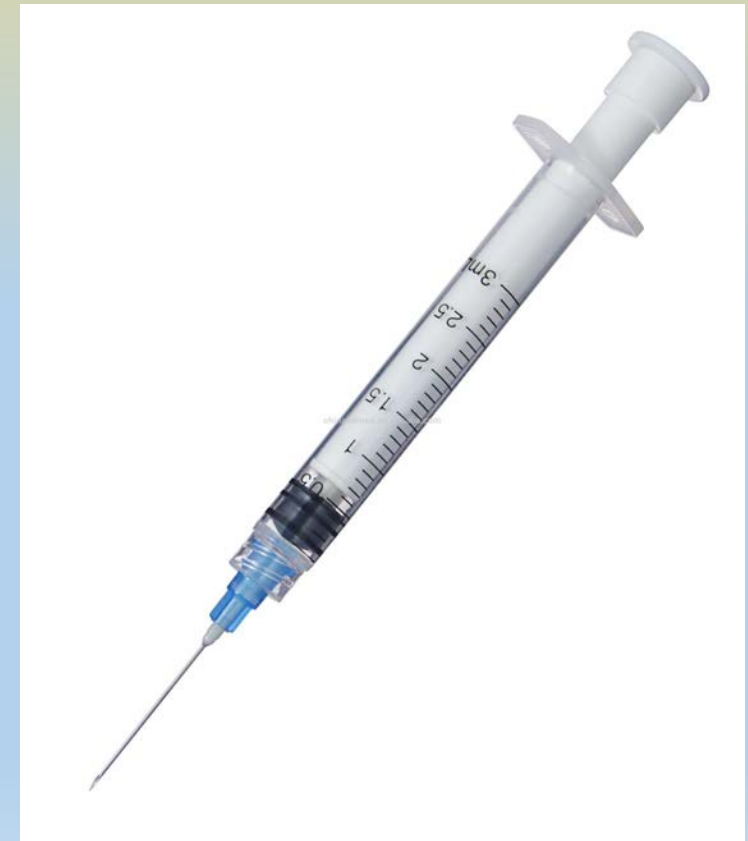
167. Strap hinge - Hinge used where major strength or support is required



168. Switch box - Used to install toggle switches or duplex receptacles



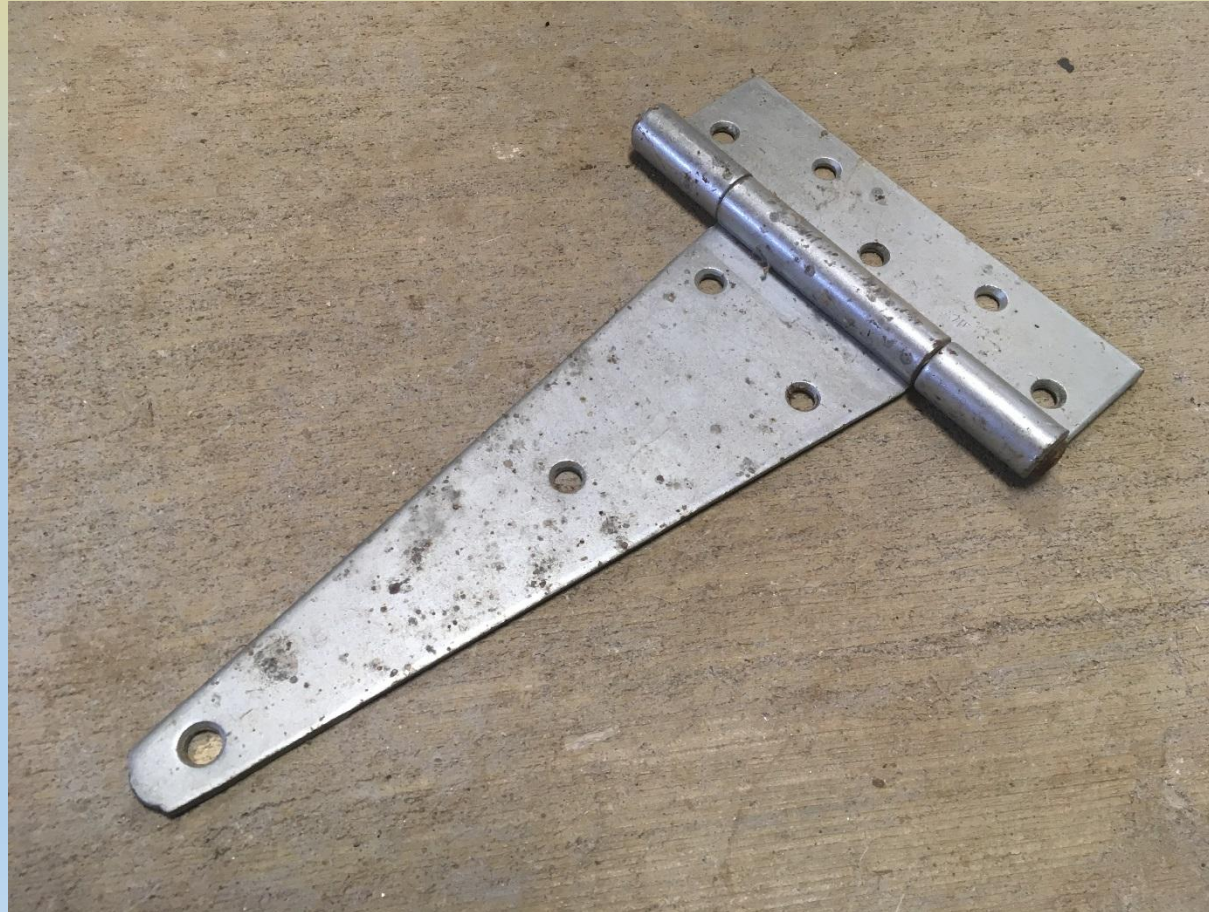
169. Syringe – Administering drugs and measuring liquids with a cylinder and plunger



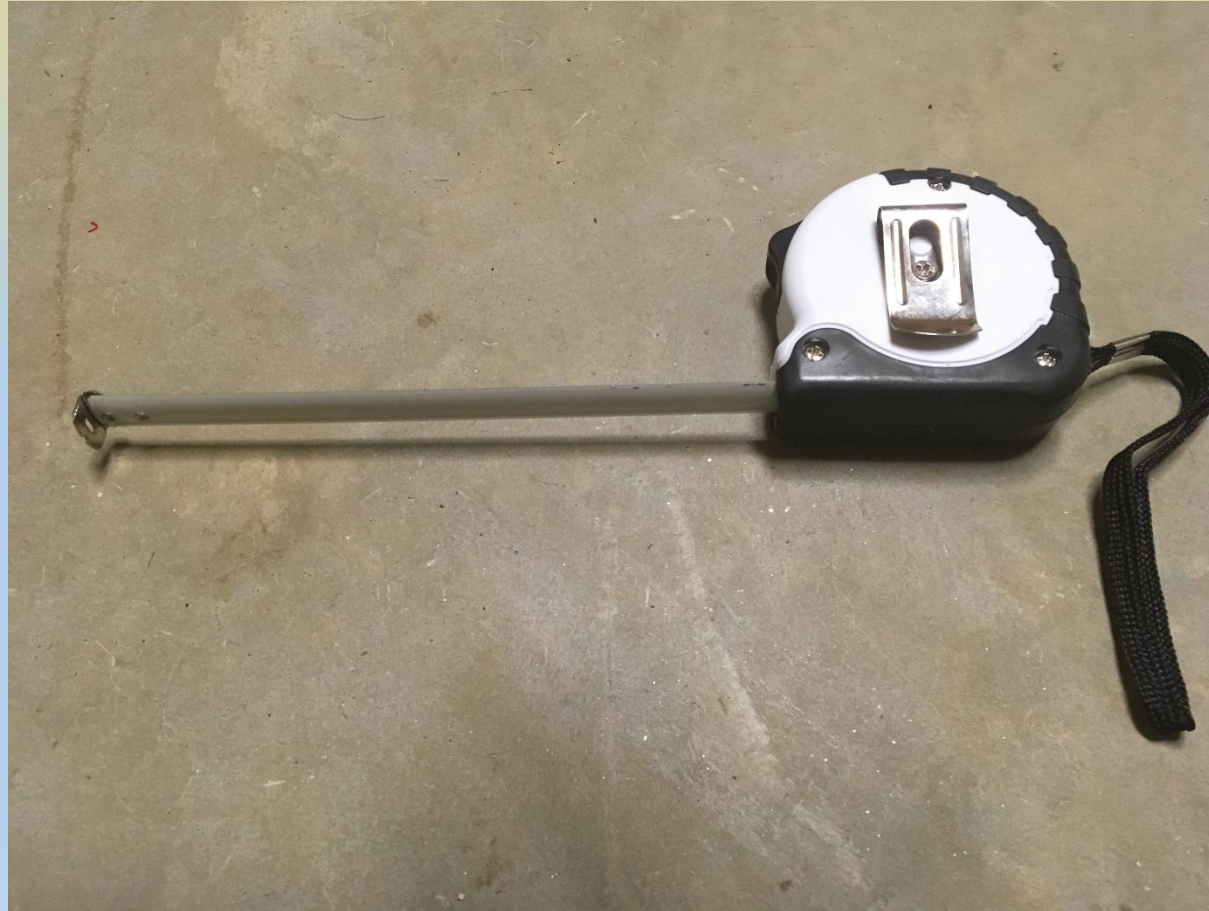
170. T bevel – Adjustable gauge for setting or transferring angles



171. T hinge - Used where strength is required but one facing is narrow



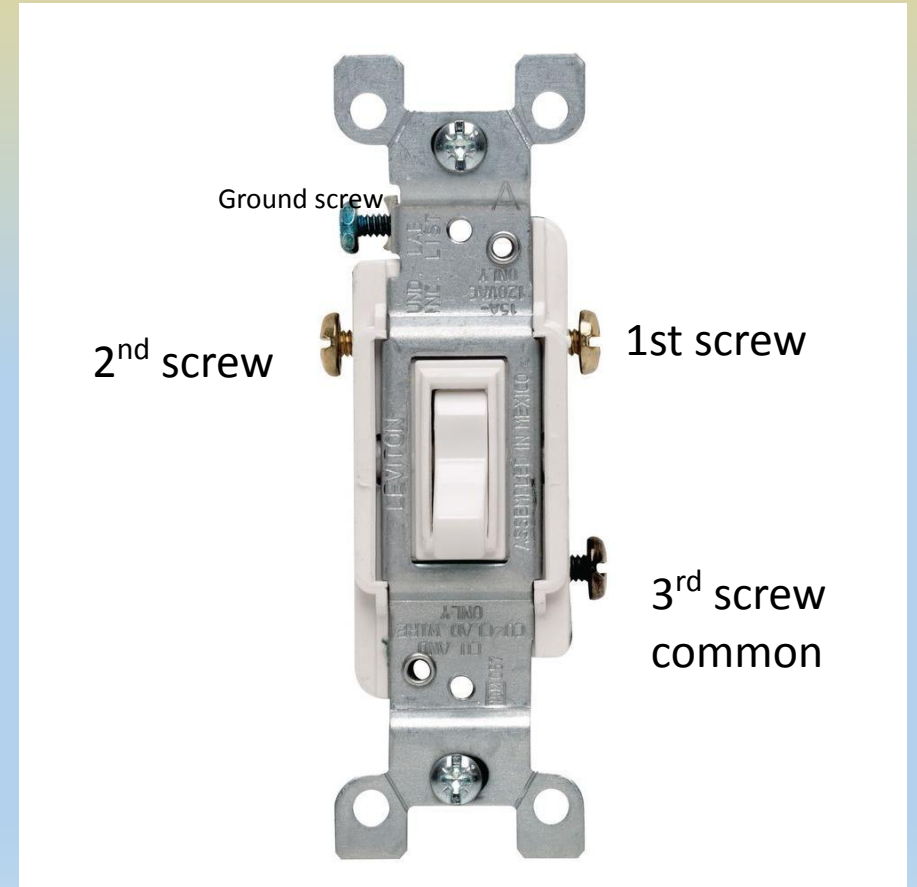
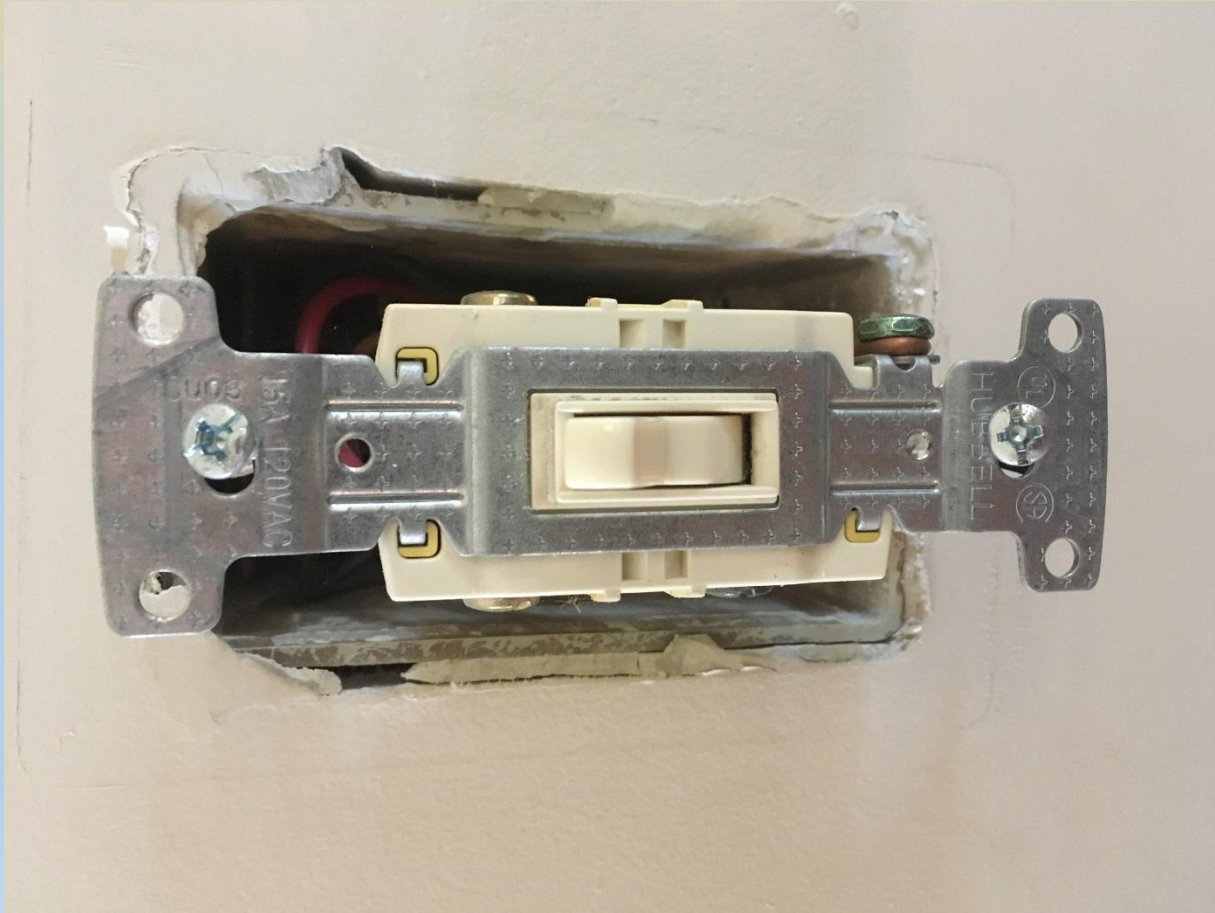
172. Tape rule – Used for straight or curved measuring



173. Thickness gauge - Determining gaps



174. Three way switch – Turning current on and off from two locations



Three way switches have three screw terminals and a ground

175. Tip cleaners - Cleaning welding and cutting tips



176. Tire chuck - Inflating tires



177. Tire gauge - Checking tire air pressure



178. Toggle bolt - Anchoring into a hollow space



179. Torch lighter - Lighting acetylene and propane torches



180. Torque wrench - Measure amount of torque



181. Torx screwdriver - Turning torx-head screws and bolts



182. Tree diameter tape - Measuring circumference of tree



183. Triangular file – Filing saws



184. Try Square – Squaring 90° angles



185. Tube cutter - Cutting soft tubing



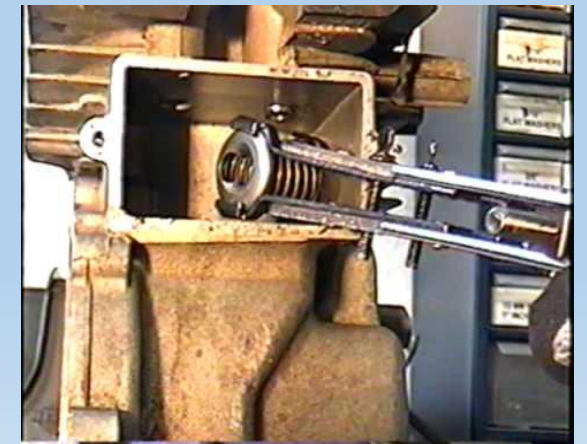
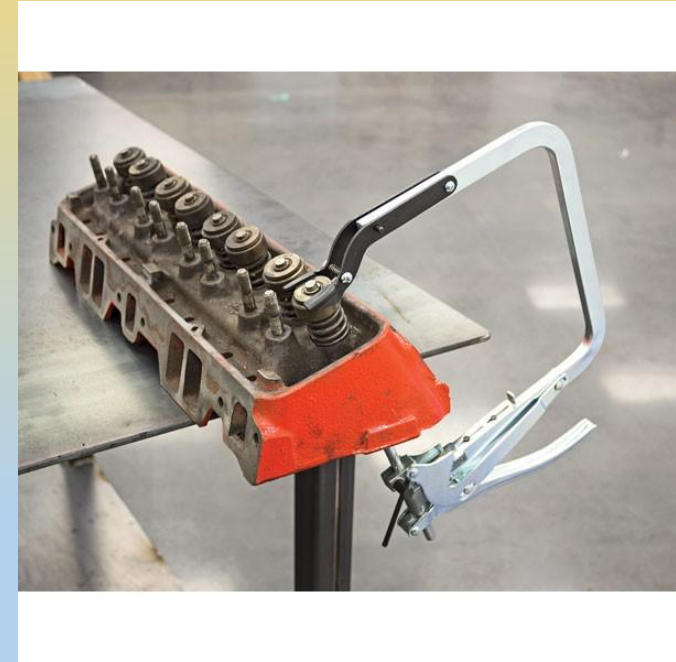
186. Universal joint - Holding socket for angled turning



187. Universal socket - Socket used for angled turning



188. Valve spring compressor - Compressing valve spring for removal and insertion



189. Vise grip pliers – Used for extra firm gripping



190. Vise grip welding clamp – Used for extra firm gripping of welding materials



191. Welding gloves – Protecting welder's hands



192. Welding goggles - Protecting welder's eyes



193. Welding helmet - Protecting face and eyes from welding flash



194. Welding torch - Heating and fusing metal



A welding torch has two control valves (oxygen and fuel) and one hole in the tip of the torch. Tip sizes vary depending on the hole diameter.

195. Wheel puller - Removing wheel from axle



196. Wire brush - Cleaning metal



197. Wire strippers - Removing insulation from electric wire



198. Wood chisel - Dressing and shaping wood



199. Wood mallet - Driving non-metallic objects



200. Wrecking bar - Ripping and prying

