$\qquad$ Class Period: $\qquad$

# Shop \& Machine Safety Guided Notes 

## General Shop Safety

- Always wear $\qquad$ while in the workshop.
- Maintain a safe distance from the $\qquad$ (5-4-5)
- The following items can easily get caught in moving equipment: (Secure it or remove)
$\qquad$ (tie it back) (remove it)
- No horse play (Goofing around, running, etc)
- Maintain a $\qquad$ work environment
___ before you $\qquad$
- Report any $\qquad$ or damaged equipment to the instructor
- Oily rags are discarded into a $\qquad$ trash can with lid.
- Always check $\qquad$ of hand tools for any damage.


## General Machine Rules

(these apply to all machines)

- Only operate machines with $\qquad$ on.
- Make sure $\qquad$ are in position and $\qquad$ .
- Stay out of $\qquad$ zones.
- Only $\qquad$ at a time.
- Only one person in the $\qquad$ at a time.
- Machine $\qquad$ turns $\qquad$ and $\qquad$ the machine, no one else.
- Machine needs to be a $\qquad$ before use.
- Never leave a machine while it is still running or $\qquad$
- Adjustments are made with the machine OFF and $\qquad$ .
- Never cut lumber with $\qquad$ in it. (Like staples or screws)
- Allow cutters to $\qquad$ before removing scraps from machine.
- Listen to the machine.


## UP-CUT SAW

## SAFETY RULES:

- NEVER place hands $\qquad$
- Allow the saw to reach full speed (about 10 seconds)
- Wood should be placed tight against the $\qquad$ tight against the $\qquad$


PURPOSE: To rough cut lumber to a length than needed. This happens before planing the board to thickness. Used for $\qquad$

## Planer

## SAFETY RULES:

- Minimum board length: Longer than the distance between the in-feed \& outfeed rollers (___)
- Do NOT pass your hand past the $\qquad$ table.
- Do not remove more than
$\qquad$ at a time.
cuts wood to the desired thickness, while creating parallel surfaces.

NOTE: This is the $\qquad$ \& $\qquad$ steps in the squaring process.

## Jointer

## SAFETY RULES:

- Use push stick when than the fence.
- Keep board tight against \& $\qquad$
- Never joint $\qquad$

- Maintain 5-4-5

PURPOSE: Used to create smooth, flat surface along the $\qquad$ of a piece of wood.

NOTE: This is the $\qquad$ step in the squaring process.

## Table Saw

## SAFETY RULES:

- Make adjustments with the $\qquad$ \& blade $\qquad$ .
- Be sure all guards are in place.
- Saw blade must be set $\qquad$ above the wood to be cut.
- Do not cut boards that are less than $\qquad$ .
- $\qquad$ only, do not crosscut.
- Use a push stick to maintain 5-4-5.
- Allow motor to reach full speed.

- Lock $\qquad$ into position.
- Place $\qquad$ of board against fence.
- Maintain $\qquad$ with board until it passes the blade \& $\qquad$ .


## Table Saw

## SAFETY RULES: <br> Never reach <br> $\qquad$

 the blade.- When the fence and blade are closer than 6 " a push stick
 used.
- Any special set-ups or cuts must be approved by the instructor.
- Free hand sawing is $\qquad$ forbidden.
- When cutting is completed, turn off the power and do not leave until the saw has come to a complete stop.
- Do not attempt to stop a $\qquad$ blade.
- Do not remove $\qquad$ until the blade has stopped.
$\qquad$ boards to the correct size. (RIP= cut with the grain) Can also make cross cuts with the $\qquad$ .

NOTE: This is the $\qquad$ step in the squaring process.

## Miter Saw

## SAFETY RULES:

- Keep hands $\qquad$ (5-4-5) from the path of the blade.
- Never $\qquad$ your arms when cutting.
- Before cutting, clear all scraps from the $\qquad$ plate.
- Before cutting, check and $\qquad$ angle into place.
- HOLD board $\qquad$ to the TABLE and FENCE.
- Only cut when the blade has $\qquad$ full speed.
- Return the saw to the $\qquad$ after each cut.
- When using the slide for cutting, be sure to push the blade through the material. ( $\qquad$ to )

Used for cross cutting and $\qquad$ (miter) cuts only. Used to
PURPOSE: square both ends of a board. Cut one end square ( 90 degreed). Measure \& cut to length (other end)

NOTE: This is the $\qquad$ (square one end) \& $\qquad$ (Square other end to length) steps in the squaring process.

## Panel Saw

## SAFETY RULES:

- Make sure the board is against the frame.
- Make sure the saw is $\qquad$ into position before using.

- Hold the handle with a firm grip and cut with a $\qquad$ feed.
- Always cut from $\qquad$ to $\qquad$ .
- After each cut remove the blade from the material and return the saw to the
$\qquad$ position.
- Do not leave the machine until it has come to a complete stop.


## PURPOSE: Used for cutting large boards and panels,

 used for boards that are too $\qquad$ for the Saw.
## Shapers

## SAFETY RULES:

- Before making adjustments, make sure the power is off \& the knives are stopped.
- Before turning the shaper on, remove all tools, loose accessories and boards.
- Make certain the fences and $\qquad$ are secured in their proper places working properly.
- Examine the stock carefully before shaping. Make sure it is free from deff DO NOT shape knots, or $\qquad$ material.
- Maintain a $\qquad$ margin of safety. (5-4-5)
- Always run the material through the shaper from $\qquad$ to $\qquad$ _.
- While shaping, DO NOT $\qquad$ the board out of the knives.
- After shaping is complete, turn off the power and allow the shaper knives to come to a complete $\qquad$ before cleaning off chips and/or leaving the shaper.
- Always use a $\qquad$ or $\qquad$ when possible

PURPOSE: Used to cut $\qquad$ into the edge or end of a board.

## Router Table

## SAFETY RULES:

- Make $\qquad$ with the power off \& router stopped.
- Maintain a 6" margin of safety. (5-4-5)
- Router from $\qquad$ to $\qquad$ .
- Do not router too fast or too slow.
- When routing is completed, turn off the power and allow the router to stop before cleaning or
$\qquad$ the machine.
- Use a push stick when need to maintain a safe distance
- Hold Board tight against $\qquad$ and $\qquad$ or
$\qquad$ bearing.


PURPOSE: Used to cut $\qquad$ into the edge or end of a board.

## Wide Belt Sander

## SAFETY RULES:

- Dust $\qquad$ must be on during use.
- Minimum board length: $\qquad$
- Keep hands away from pinch points (Conveyor belt and rollers).
- Do NOT overlap boards.
- Only remove $\qquad$ each pass.
- Use adjustment knob for smalladjustments.


PURPOSE: Used to sand stock flat and to a specific
$\qquad$ . Can sand both with and across the grain. (i.e. Face frame)

## Horizontal Belt Sander

## SAFETY RULES:

- Before using: check for \& report any $\qquad$ or loose sandpaper.
- Allow sander to obtain full speed before using it.
- Turn on $\qquad$ switches
- Belt $\qquad$ and $\qquad$ (up and down).
- Maintain fingers a safe distance from sanding belt.
- Sand with $\qquad$ pressure.
- Never sand material that may jam between the belt and table.
- Hold the material $\qquad$ on the table when sanding.
- Always sand by moving the stock into ( $\qquad$ ) the rotation of the sanding belt.

PURPOSE: Used for trimming to a scribed line, sanding rough surfaces, and freehand $\qquad$ and shaping.

## Spindle Sander

## SAFETY RULES:

- Sand $\qquad$ the rotation
- Maintain a safe distance from Sandpaper.
- Remove on $\qquad$ "- $\qquad$
- Do not use $\qquad$ pressure
- Hold material $\qquad$ against the table


## PURPOSE: Used to sand object.

$\qquad$ CORNERS of an


## Disc Sander

## SAFETY RULES:

- Hold material $\qquad$ against the table
- Maintain a safe distance from Sandpaper.
- Sand on $\qquad$ side of disc.
- Remove on $1 / 8^{\prime \prime}$ - $\qquad$ "
- Do not use $\qquad$ pressure
- Use a clamp for sanding $\qquad$ boards.


PURPOSE: Used to smooth material, especially on curves. Can be used to remove small amounts of material.

## Drill Press

## SAFETY RULES:

- Drill bits are SHARP \& (can be) $\qquad$
- Hold or $\qquad$ board securely
- Always use a $\qquad$ board
- Always Remove $\qquad$
- If you loose control of your board or board begins to rise up:

1. Keep $\qquad$ down
2. Turn machine off


## PURPOSE: Used for drilling holes (one hole at a time)

## Horizontal Boring Machine

## SAFETY RULES:

- Maintain a safe distance from $\qquad$ mechanism and bits (5-4-5)
- Allow motor to be at full speed before use
- Step on $\qquad$ to clamp \& drill. when holes have been drilled.


PURPOSE: Drills $\qquad$ holes used for a $\qquad$ joint.

## Band Saw

## SAFETY RULES:

- Guard: Set $\qquad$ "- $\qquad$ " above material
- Avoid the $\qquad$ of the blade.
- Stop blade before backing out of a $\qquad$ cut.
- Use $\qquad$ cuts on curves.
- Remove scraps when blade is $\qquad$ stopped.



## PURPOSE: Primary purpose is to make

$\qquad$ or
$\overline{\text { an exact }}$ size.

## Pneumatic Nail Gun

## SAFETY RULES:

- Always keep Nail gun pointed in a $\qquad$ direction.
- Keep fingers at least 5-4-5 away from the area where the $\qquad$ comes out.

- Do not shoot nails into work $\qquad$ .

PURPOSE: two objects together using nails.

