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Cabinetmaking 1

***Lesson Topic***: Jointer

***NYS LEARNING STANDARD(S) ADDRESSED BY LESSON:***

**Math Science Technology 2:**

Students will access, generate, process, and transfer information using appropriate technologies.

**Career Development Occupational Standards 2:**

Integrated Learning Students will demonstrate how academic knowledge and skills are applied in the workplace and other settings.

**Career Development Occupational Standards 3a:**

Universal Foundation Skills Students will demonstrate mastery of the foundation skills and competencies essential for success in the workplace.

***Aim:*** What Are The Components of a Jointer?

***Instructional Objectives:*** At The End Of This Lesson Students Will Be Able To:

* *Identify Jointer anatomy*
* *Identify the anatomy of the cutterhead*
* *Identify several safety tips*

***Do Now:*** Why the name jointer, what does this machine do?

***Answer****: The jointer's name comes from the need for two straight and square edges required to create a good glue joint.*

***Presentation:***

***The jointer***

Question: What are the 7 important parts of the jointers anatomy and the role it holds?

***Answer:***

1. *Infeed Table - The front of the jointer where the workpiece is placed.*
2. *Outfeed table - The rear of the jointer, where the workpiece slides onto.*
3. *Fence - The fence is a vital part of the jointer for accurately squaring of workpieces.*
4. *Infeed adjusting handwheel - The device for adjusting the depth of the cut. Works in conjunction with the depth scale.*
5. *Outfeed adjusting handwheel - Should be set perfectly level with the top of the arc of the cutterhead knife.*
6. *Rabbeting ledge - Creates a narrow rabbet along the length of a workpiece.*
7. *Front guard - A safety device, this is a piece of metal on a pivot that covers the rotating cutterhead.*

*Question: What are the parts to the cutterheads anatomy?*

***Answer:***

1. *Cutterhead body*
2. *Knife*
3. *Knife elevating screw*
4. *Knife tightening gib*

*Question: What are the safety concerns that come with operating the jointer?*

Answer:

* Never run a workpiece shorter than 10 inches across the jointer
* Use a push stick when surfacing stock thinner than 3/4 inch
* Before using a jointer check to be certain that all parts of the machine are locked securely
* Do not run a piece across the jointer until the machine is at full speed
* Stand at the left side of the cutterhead

***Medial Summary:***

*Question: What causes the depth of cut to change?*

*Question: What is the most common number of knifes in a cutterhead?*

*Question: What is the maximum depth of cut allowed?*

*Question: What degree does the fence need to be set at to make a perfect glue joint?*

***Activity:***  Fill out the diagram of the anatomy of a jointer.

***Homework:***

Become familiar with the cutterhead components. Complete the diagram of parts of the cutterhead.