

## *Woodworking Plans*

**Title:** What should woodworking plans include?

**Audience:** High school students in the Ag 3 class

**Teacher Objectives:**

Upon the completion of this unit the learner will be able to:

1. Name and describe the parts of woodworking plans
2. Create plans for an individual project
3. Compile a Bill of Sales
4. Evaluate their needs and how they can use their skills to meet their needs

**Materials Needed:**

1. Internet Access
2. Sample woodworking plans
3. Paper, rulers, triangles, etc. for drawing plans

**Motivation:**

**How does a cook know what ingredients to put into a dish that he/she is preparing? (Follow Recipes) How does a crafter know what materials he/she needs to make a craft? (Listed in the instructions) How does a salesman know how to price the items he/she is selling? (Calculate the costs and profit margin) Why is it important for each of these people to be prepared? (So that the food taste good, the craft turns out right, and the salesman makes money) We are getting ready to start our individual projects in class. I want you to take out a piece of paper and brainstorm a list of ideas that you are considering for your project. (Allow time for the students to make their list then have them share some of their ideas with the group.) Now list what you think you will need to be prepared for the projects. (Allow time for them to make the list). Today you will learn what you need to prepare for your project and you will have time to start your preparations.**

### Subject Matter

Parts of woodworking plans:

- Design (drawing with

### Procedure

#### Motivation

Have students work with partners to find the parts of a woodworking

dimensions)

- List of tools
- List of material
- Bill of sales
- Instructions

plan on the internet and describe each section. (Interpersonal)

### Creating individual plans

Have the students consider their personal needs and how their projects can meet their needs. For example do they need a feeder for their SAE project or a present for a family member? Have students work individually on developing and plans for their individual projects. The students should draw their project and write directions for the assembly. (Intrapersonal/Spatial/Linguistic)

### Compiling a Bill of Sales

Have the students complete a bill of sales by listing the materials needed, the cost of the materials, and calculating the total cost of the project. (Logical – Mathematical)

### Summary / Review:

- What parts should be included in a woodworking plan?  
(design, tools, materials, bill of sales, instructions)
- What should you consider before starting your plans?  
(Personal needs, SAE projects)
- How do you create a Bill of Sales?

Ask students questions to check for understanding.

(List all of the materials needed, Find the price of the materials, calculate the price of the project)

- Why is it important to calculate a bill of sales?  
(to know how much money you will be investing, to be able to give price quotes)