Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2X4 Challenge**

The main use of a 2x4 is to help strengthen the frame of a house or many other structures that we use as shelter. Although this is the main purpose of a 2x4 they can also have many other uses.

**Purpose:**

The purpose of this project is for to you design and construct a project that is made completely out of one two by four.

**Requirements**:

 You must make at least five different cuts

You must use at least 2 different wood joints

You must have 5 thumbnail drawings

You must have one final draft created on Inventor (dimensioned) approved by the teacher before you start.

You will want your final product to weigh as close to the original two by four as possible

You must write an eleven-sentence paragraph about your project. (Why you chose your design, did it turn out like you planned, why or why not? etc.

**Grading:**

Thumbnail drawings/Brainstorming 25pts \_\_\_\_\_\_

Concept Sketch 25pts \_\_\_\_\_\_

Product 50pts \_\_\_\_\_\_

Total 100pts \_\_\_\_\_\_

Keep this handout; you will turn it in when you turn in the project. If you don’t turn this back in you will not receive a grade for your project!!!!!!!!!

**Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**