

Woods II
Reproducible Part

Name _____

Date _____

Assignment:

In this activity you will design, produce and reproduce a part applying the skills developed in the sketching and machine operation units. First you will produce a three-view sketch of your part that details the project requirements. Once your sketch is approved, you will produce the part and turn both the sketch and the part in for grading. You will then receive a sketch from another class member and time will be give to produce this part following the specifications. This will also be graded. Your final grade will be a culmination of your sketch (detail and accuracy) along with the accuracy of the two parts produced.

Requirements:

- Approved three-view sketch of your part.
- Final part produced by yourself.
- Final part produced from a different class members drawing.

Procedure:

1. Start by completing a three-view sketch that details your part. The sketch is to be to scale (1:1) and include all dimensions in order to produce the part. Your part will be made from stock that is roughly _____" - _____" thick, _____"- _____" wide and _____" - _____ in length. The finished part must meet the following requirements:
 - A change in thickness, width and length of the original stock.
 - Final thickness will be _____"
 - Final width can be no less than _____"
 - Final length will be between _____"- _____"
 - Include two machined holes.
 - One hole with a diameter of 1/4" – 1/2" through hole drilled with a twist drill bit.
 - One hole with a diameter of 5/8" – 1" machined to a depth of _____" drilled with a forstner bit.
 - Include a change in two corners.
 - One corner with a radius of at least 1".
 - One corner with a 45 degree angle run from edge to end with a minimum of 1".

Instructors check point _____

2. Produce the item in the lab following your original sketch and the plan of procedure that was developed in class. Turn in you completed work and sketch for evaluation.

Instructors check point _____

Part# _____

3. Reproduce another student's part using the sketch supplied by the instructor. Turn this completed work and sketch in for evaluation.

Instructors check point _____

Drawing# _____

