Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Total Grade: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ / 135

Chessboard Project

\_\_\_\_\_\_\_\_\_ / 10 pts Plan of Development

\_\_\_\_\_\_\_\_\_ / 10 pts Bill of Materials

\_\_\_\_\_\_\_\_\_ / 5 pts Cut List

Chess Board will be graded in stages:

Stage 1: Actual Board = 40 pts

* Graded on piece size and alignment
* Graded on joint gaps
* Graded on miters
* Graded on overall surface
* Graded on sanding

Stage 2: Board Finish Job = 15 pts

* Graded on brush strokes
* Graded on Buffing
* Graded on drips and runs

Stage 3: Pieces = 15 pts

* Graded on similarity
* Graded on size
* Graded on sanding
* Graded on finish job

Stage 4: Chess Piece = 20 pts

* Graded on individuality
* Graded on size
* Graded on sanding
* Graded on finish job

Questionnaire = 20 pts

Bonus! = 10pts

* If you can beat me at a match of checkers. I will give you an extra 10 pts no questions or rematches.
1. Name the 3 types of wood you used on this project. \_\_\_\_\_\_\_\_\_ / 3 pts
	* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Name 3 lathe tools you used on this project. \_\_\_\_\_\_\_\_\_ / 3 pts
	* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. What material did you make your chess piece out of? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Did you do chess or checkers? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What materials did you make your pieces out of? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. How many glue ups did we do on this project? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Which glue up did you find the hardest and why? \_\_\_\_\_\_\_\_ / 2 pts \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. If you could change one thing about this project what would you change and why? \_\_\_\_\_ /3pts \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. What was the hardest thing about this project and why? \_\_\_\_\_\_ / 3 pts \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. What was your favorite thing about this project and why? \_\_\_\_\_\_\_ / 2pts \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Additional Comments:

Stage 1: Actual Board \_\_\_\_\_\_\_\_ / 40

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 |
| All 64 of the squares are the same size. 2” x 2” # of pieces =  | ≤ 56 of the pieces are the same size. 2” x 2”# of pieces =  | ≤ 48 of the pieces are the same size. 2” x 2”# of pieces =  | ≤ 40 of the pieces are the same size. 2” x 2” # of pieces =  | ≤ 32 of the pieces are the same size. 2” x 2”# of pieces =  |
| All 8 rows are lined up. Tight square corners.  | 7 rows are lined up.  | 6 rows are lined up. | 5 rows are lined up.  | 4 rows are lined up.  |
| There are no gaps between the pieces or the border. | There are 1-2 gaps between the pieces or the border. | There are 3-4 gaps between the pieces or the border. | There are 5-6 gaps between the pieces or the border. | There are 7-8 gaps between the pieces or the border.  |
| Mitered Edges are tight, no gaps.  | There is one gap in your miters.  | There are 2 gaps in your miters. | There are 3 gaps in your miters.  | There are 4 gaps in your miters. You did a patch.  |
| Miters are perfect to the corners.  | 1 Miter is slightly off the corners.  | 2 miters are off corners.  | 3 miters are off corners.  | 4 miters are off corners.  |
| There were no sanding or machining marks.  | There were some sanding marks. No machining marks.  | There were many sanding marks and some machining marks.  | There were many machining and sanding marks. | You did not spend enough time sanding.  |
| There are no visible glue marks.  | There are 1-3 glue marks.  | There are 4-6 glue marks.  | There are 7-9 glue marks.  | There are 10-12 glue marks.  |
| Board is level on both sides.  | Board has some dips and is not level on one side.  | Board has some dips and is not level on either side.  | Board has lots of dips and valleys. Not level on either side.  | Board need to be planed and re-sanded.  |

Finish work: \_\_\_\_\_\_\_\_ / 15

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 |
| You did 2 even coats.  | You did 2 coats but they were uneven.  | You did 1 coat, but it was even.  | You did 1 coat but it was uneven.  | Coats not even. Still visible wood.  |
| Finish had no drips or runs.  | Finish had 1-3 drips. No runs.  | Finish had 1-3 drips and runs. | Finish had 4-6 drips and runs.  | Finish 7-9 drips and runs.  |
| There are no visible brush strokes. Buffed  | There are some visible brush strokes. 1 side buffed.  | There are several visible brush strokes. No buffed sides.  | One side is covered in brush strokes. No buffing.  | Both sides are covered in brush stokes. No buffing.  |

Comments:

Pieces: \_\_\_\_\_\_\_\_ / 15

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 |
| All 32 pieces are the same size. 1” -1 ¼” # of pieces =  | ≤ 24 of the piece are the same size. 1”- 1 ¼” # of pieces =  | ≤ 16 of the pieces are the same size. 1” – 1 ¼” # of pieces =  | ≤ 8 of the piece are the same size. 1” – 1 ¼”# of pieces = | None of your piece are the same size.  |
| There were no sanding or machining marks. Edges are nice and smooth.  | There were some sanding marks. No machining marks. Edges are could be smooth.  | There were many sanding marks and some machining marks. Edges are kind of rough.  | There were many machining and sanding marks. Edges or really rough.  | You did not spend enough time sanding.  |
| 2 coats of buffed finish. No runs or drips.  | 1 coat of buffed finish. No runs or drips.  | Some drips, did not buff.  | Some runs and drips. No buffing | Lots of runs and drips.  |

Chess Piece: \_\_\_\_\_\_\_\_ / 20

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 |
| Chess piece is ≥ 2” tall, and ≥ 1 ¼” wide at the base.  | Chess piece is ≤ 2” tall and ≤ 1 ¼” wide at the base.  | Chess piece is ½” shorter than required size, and 1/8” narrower at the base.  | Chess piece is ¾” shorter than required size, and ¼” narrower at the base.  | Chess piece is 1” shorter than required size, and ½” narrower at the base.  |
| There were no sanding or machining marks.  | There were some sanding marks. No machining marks.  | There were many sanding marks and some machining marks.  | There were many machining and sanding marks. | You did not spend enough time sanding.  |
| 2 coats of buffed finish. No runs or drips.  | 1 coat of buffed finish. No runs or drips.  | Some drips, did not buff.  | Some runs and drips. No buffing | Lots of runs and drips.  |
| No one has a chess piece like yours.  | Similar to a picture online.  | Similar to someone in the class.  | Just like someone in the class.  | Someone else turned your piece.  |

 Comments: