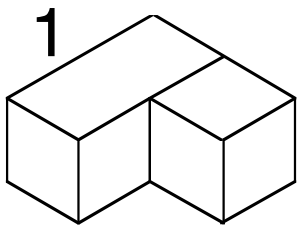
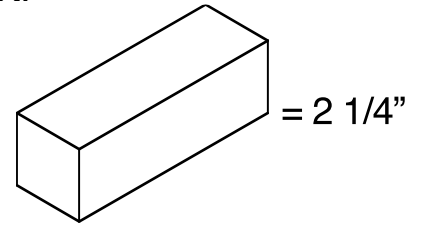
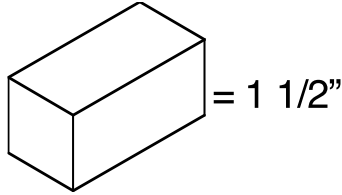
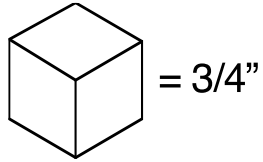


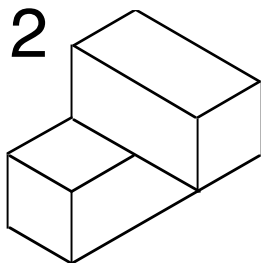
NAME \_\_\_\_\_

# WOODEN BLOCK PUZZLE

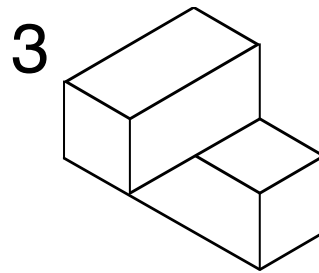
Get graph paper and layout and label the blocks that make up the following SEVEN shapes. Show Kuhn this paper and the Graph paper to get plans for the Puzzle Box.



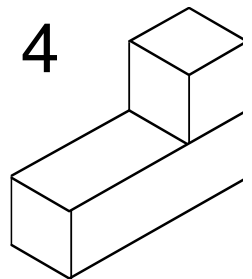
Small L Block



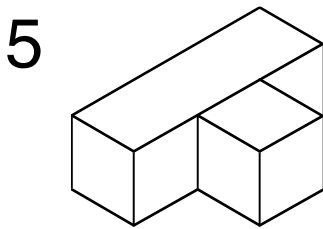
Stacked S Block



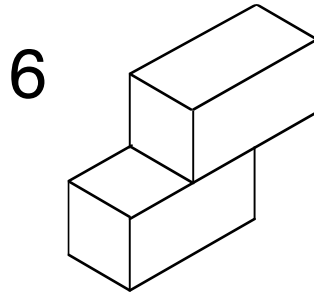
Stacked Backwards S Block



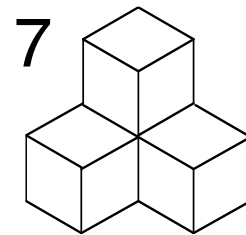
Large L Block



T Block

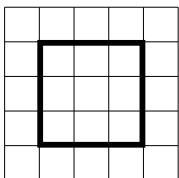


S Block

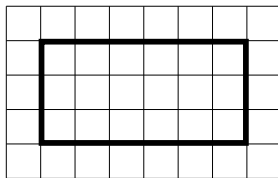


Castle Block

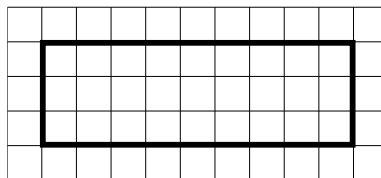
$3/4'' =$   
3 □'s by 3 □'s



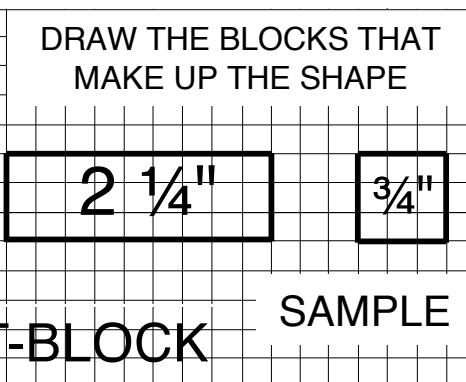
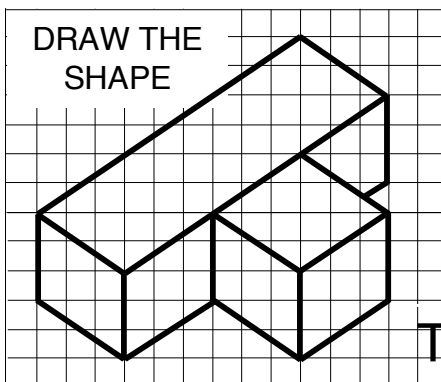
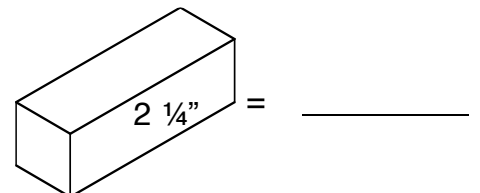
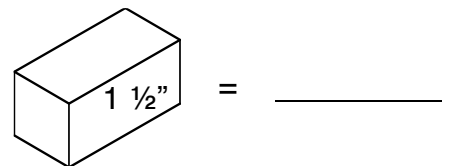
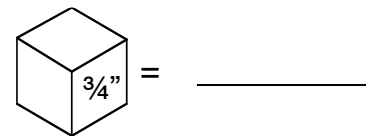
$1\ 1/2'' =$   
6 □'s by 3 □'s



$2\ 1/4'' =$   
9 □'s by 3 □'s



Fill in the following information on your graph paper to determine how many blocks you need of the following lengths



T-BLOCK

SAMPLE

NAME \_\_\_\_\_

# SOMA WOOD BLOCK PUZZLE PLANS

1. Show Kuhn graph paper and this paper to get first 9" strip of mahogany and a Plastic Baggie.
2. Put name on Plastic Baggie with Sharpie.
3. Cut the 1 ½" lengths with the 1 ½" jig and stamp your initials on each piece.  
When your Mahogany strip is too small to cut another piece hand in left over piece and your plans for another strip and continue cutting 1½" pieces.

**Worth 5 pts. \_\_\_\_\_**

4. After you have cut all of the 1 ½" pieces you will cut your 2 ¼" pieces.
5. After you have cut all of your 2 ¼" pieces hand in left over Mahogany strip and your plans to get another strip.

**Worth 5 pts. \_\_\_\_\_**

6. Cut the ¾" pieces on the Band Saw. Hand in left over strip to get 220 grit.

**Worth 5 Pts \_\_\_\_\_**

7. Sand both ends of all 15 pieces with the 220 grit until smooth and no splinters.  
Hand in 220 grit before going onto next step.
8. Glue the shapes in the order specified on the other side of this paper.
9. Show Kuhn after you have glued the 1<sup>st</sup> four shapes.  
Ask for masking tape if glue is not drying. Put in plastic bag at the end of the period
10. Glue the last 3 shapes, show Kuhn, and put in Plastic bag to dry  
Ask for masking tape if glue is not drying. Put in plastic bag at the end of the period.
11. Sand all sides and ends smooth and even with Sanding Board. Check with Kuhn once all the seven shapes are sanded to get graded.

**WORTH 35 \_\_\_\_\_**

12. Sand all shapes with 600 Grit.
13. Hand in 600 grit to stain puzzle pieces. Put on paper towel on desk and put puzzle together. Once puzzle is together follow the first step on making the Puzzle Box on the other side of this paper.

## WOODEN PUZZLE BOX

1. Show Kuhn puzzle put together wrapped in paper towel and a pencil to get the two end pieces of ½" pine. Write name on each piece. Put puzzle in bag with the 2 end pieces.
2. Glue long edges of both end pieces and show Kuhn for two ½" pine side pieces. Glue box together. All pencil marks are on the outside (name and X sides). Hold for 5 minutes. Make sure top, bottom, and sides are even. Clamp over X sides. Use box platter to help you put box in Vice. Leave until the end of Period.  
**Go to next step once your box is in the vice.**
3. Get inside top piece.
4. Stamp first and last name on inside top piece
5. Sand inside top piece with sanding board until it fits inside box.
6. Sand top and bottom smooth with Sanding Board.
7. Show Kuhn that the inside top piece fits and top & bottom smooth to get outside top.
8. Trace outside top piece as demonstrated.
9. Glue side opposite of stamped name to top piece where you traced on previous step.
10. Hold in place until dry for at least 5 minutes, put on Spring Clamp for 5 minutes, Put in Vice for rest of Period until lights go out.
11. Show Kuhn top piece in box and a pencil to get Masonite for bottom piece. Write 1<sup>st</sup> and last name on the center of the Masonite.
12. Glue on bottom piece with name on the inside with the lid in place. Hold in place with hand for 5 min. then put in vice until the end of the Period. Wipe off any glue that is on the inside. Sand sides with used sand paper until end of period.
13. Show Kuhn box with lid in place and plans to get 60 Grit Sand paper received\_\_\_\_\_
14. Put on lid and sand all sides of box until you have removed the glue marks, the pencil marks, and all sides even.
15. Round over or decorate all edges except for the 4 bottom edges.
16. Hand in 60 grit sandpaper to get 220 grit and sand everything with 220 grit.
17. Fill in any cracks with Wood Putty. Sand over with used 60 grit sandpaper.
18. Hand in 220 grit to get 600 grit and sand everywhere with 600 grit.
19. Hand in 600 grit. Stain just the outside of box and the inside of the lid and let dry inside your period's cabinet.
20. Fill out evaluation.
21. Hand in Puzzle put together inside box the day after you stain the box with Graph Paper, Evaluation, and Plans stapled together with evaluation on top.

