

Beginner

Advanced

Proficient

Woodworking

project designs



Woodworking is a persistent
mentor of patience, and the true
craftsman has learned it quite well.

Todd Warren

Welcome to the Valley Oaks Charter School woodworking catalog. In the following pages you will find a number of project designs for the beginning, advanced, and proficient woodworker. Please find a project to build according to your skill as a woodworker and bring the plans with you to every shop class.

Yes, you may build something that is not in this catalog, and yes you may put your own little spin or changes to any of the plans you like. If you do, however, make sure you have the plans or changes drawn on paper and receive approval from the instructor before beginning.

To determine if you are a beginning, advanced, or proficient woodworker, simply count the number of projects you have done in each category below. Once you have completed three projects in one difficulty level, you may advance to the next level of difficulty. And yes, you may do any project that is below your skill level. In other words, proficient woodworkers are welcome to do advanced or beginner projects.

Have fun and be safe!

Mr. Warren

Project designs

Beginner projects (Difficulty level 1):

Games

1. Card Box (for playing cards)
2. Solitaire
3. Tic-tac-toe Board

Garden

1. Garden Signs
2. Pot Stickers

Home and Office

1. Candle Holder
2. Office Mate
3. Picture Frame
4. Shaped Candle Holder
5. Book/DVD Case

Kitchen and Bath

1. Book Holder
2. Napkin Holder
3. Paper Plate Holder
4. Spaghetti Measuring Tool
5. Toothbrush Holder

Teen

1. CD Holder
2. Hat Rack
3. Video Game Controller Rack
4. Guitar Rack (wall mounted)
5. Necklace Holder
6. Jewelry Rack

Toys

1. Toy Airplane
2. Toy Car
3. Push Duck Toy
4. Toy Race Car
5. Spinning Top
6. Toy Boat

Advanced Projects (Difficulty level 2):

Games

1. Tic-tac-toe Box

Garden

1. Garden Toolbox
2. Window Box
3. Wishing Well
4. Bird Feeder

Home and Office

1. CD Holder (standing)
2. Toolbox
3. CD Holder 2
4. Door Stop
5. Mantle Clock
6. Magazine Rack
7. Shelf
8. Quilt Holder (standing)

Kitchen and Bath

1. Step Stool
2. Fruit Basket
3. Paper Towel Holder (wall mounted)

Teen

1. Bow and Arrow Rack (wall mounted)
2. Game Controller Rack (wall mounted)
3. Game Controller Holder
4. Skateboard Rack (wall mounted)
5. Skateboard Rack (standing)

Proficient Projects (Difficulty level 3-5):

Games

1. Chinese Checkers
2. Cribbage Board
3. Mancala Board
4. Checkerboard

Garden

1. Bird House
2. Garden Planting Table
3. Wagon Plant Holder

Home and Office

1. Office Box
2. Square Bowl
3. Entry Table
4. Plant Table
5. Box with Sliding Lid
6. Shelf
7. Bookends
8. Curio Shelf

Kitchen and Bath

1. Breadbox
2. Cutting Board 1
3. Cookbook Holder
4. Footstool
5. Cutting Board 2
6. Salt and Pepper Shakers
7. Wood bowl

Teen

1. Deco Box
2. Children's Bench

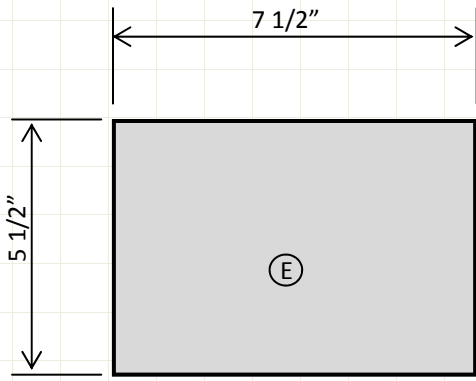
Toys

1. Model T Car

Beginner Projects



First Designs
WoodWorking



TOP VIEW

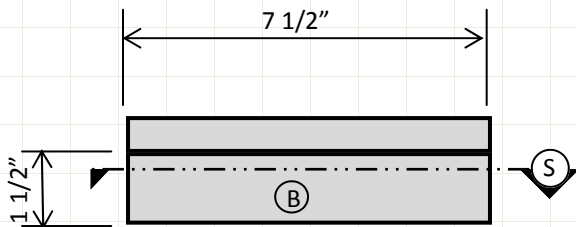


LIST OF MATERIALS:

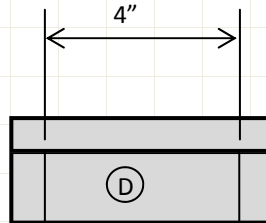
1. 1X6 DOUGLAS FIR (TOP)
2. 1X3 DOUGLAS FIR (BOTTOM)
3. 1X2 DOUGLAS FIR (SIDES)

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	BOTTOM	2	3/4 X 2 1/2 X 4
B	FRONT	1	3/4 X 1 1/2 X 7 1/2
C	BACK	1	3/4 X 1 1/2 X 7 1/2
D	SIDE	2	3/4 X 1 1/2 X 4
E	TOP	1	3/4 X 5 1/2 X 7 1/2
F	DIVIDER	1	3/4 X 1 1/2 X 4



FRONT VIEW



RIGHT SIDE VIEW

REQUIRED TOOLS

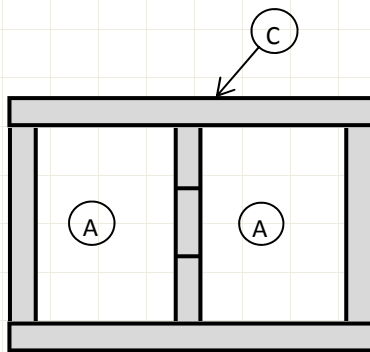
1. MITER SAW
2. TABLE SANDER
3. SCROLL SAW

JOINERY

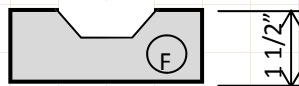
1. NAIL GUN

FUN OPTIONS

1. WOOD BURN IMAGE IN BOX TOP. DO A SEARCH ON LINE FOR AN IMAGE.
2. LINE INSIDE OF BOX WITH FELT



TOP VIEW SECTION



DIVIDER DETAIL

Name:

Class:

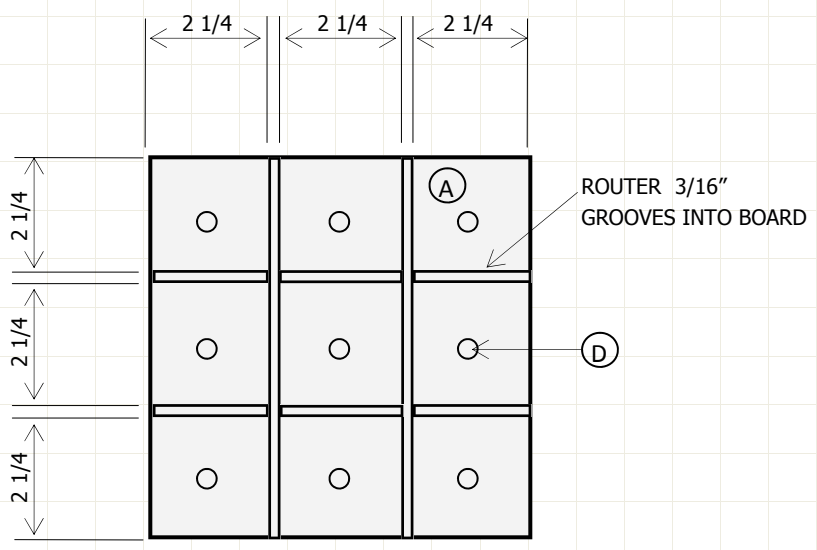
Date:

Card Storage Box

Scale 1/4" = 1"

Difficulty Level

1




LIST OF MATERIALS:


1. 1X7 DOUGLAS FIR
2. 1X3 DOUBLAS FIR

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	BOTTOM	9	3/4 X 7 1/8 X 7 1/8
B	GAME X	4	3/4 X 1 1/2 X 1 1/2
C	GAME O	4	3/4 X 1 1/2 X 1 1/2
D	DOWEL	9	1/4 Ø X 1 1/2

TOP VIEW

Ⓒ  DRILL 1 1/2 Ø HOLE SAW FOR PLAYING PIECE. THEN DRILL CENTER HOLE AT 3/8 Ø. USE CIRCLE CLAMP.

Ⓑ  DRILL CENTER HOLE FIRST AT 3/8 Ø. THEN, USE SCROLL SAW FOR SHAPING X PIECE.

REQUIRED TOOLS

1. MITER SAW
2. DRILL PRESS
3. ROUTER

JOINERY

1. GLUE—BUTT JOINT

FUN OPTIONS

1. STAIN O AND X DIFFERENT COLORS

PLAYING PIECES

Name: _____

Class: _____

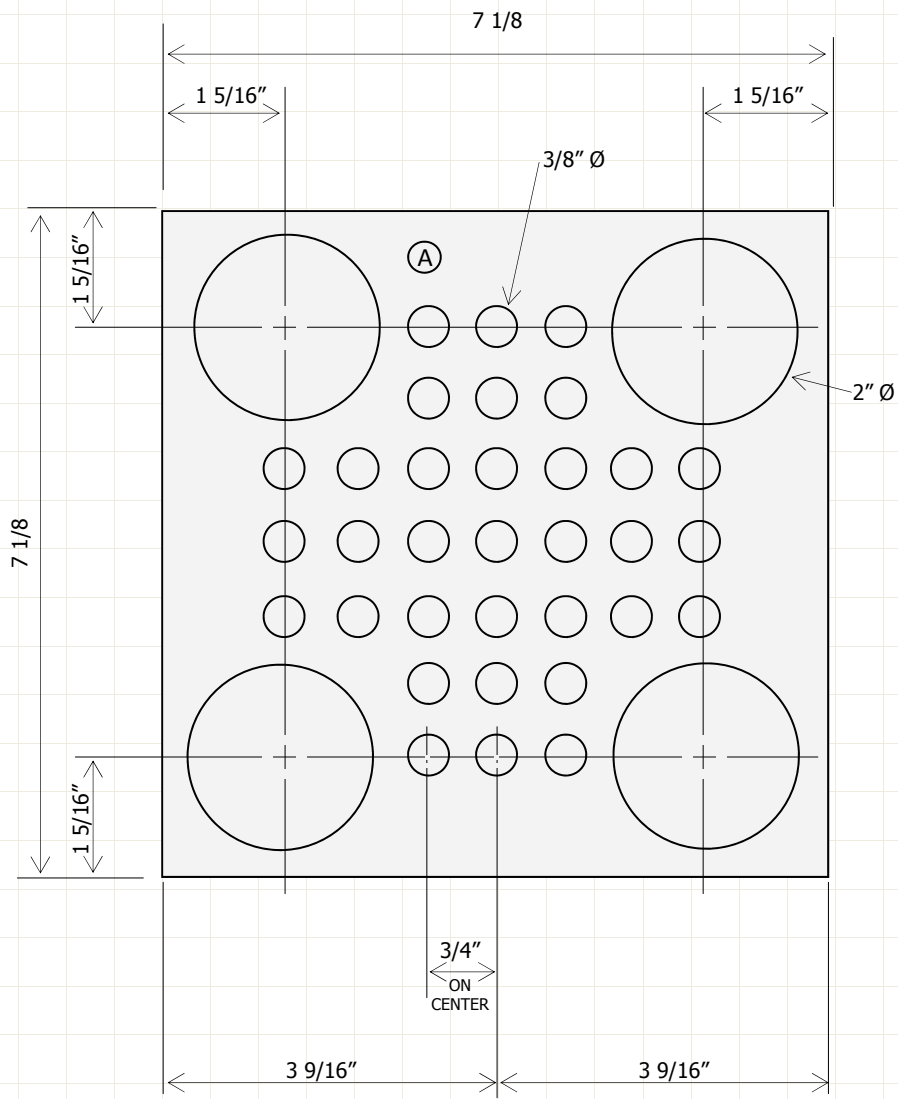
Date: _____

Tic-tac-toe

Scale 1/4" = 1"

Difficulty Level

1



TOP VIEW



LIST OF MATERIALS:

1. 1X8 DOUGLAS FIR

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	BOTTOM	1	3/4 X 7 1/8 X 7 1/8

REQUIRED TOOLS

1. MITER SAW
2. DRILL PRESS
3. HAND ROUTER (OPTIONAL)

Name: _____

Class: _____

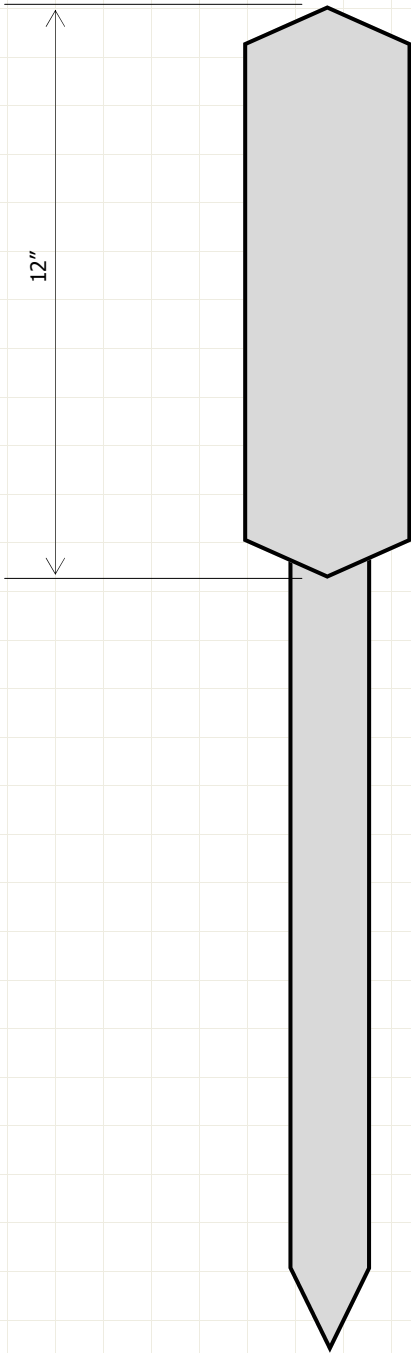
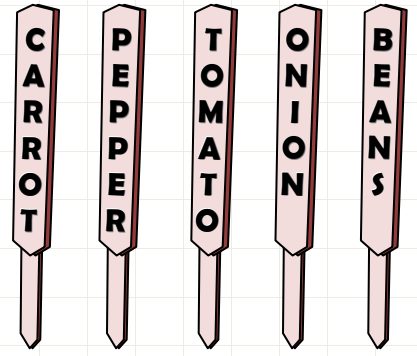
Date: _____

Solitaire

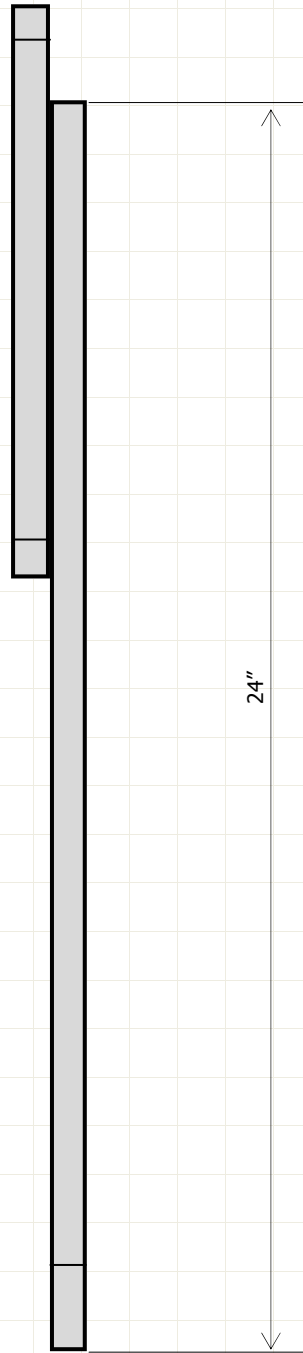
Scale 1/2" = 1"

Difficulty Level

1



FRONT VIEW



SIDE VIEW

LIST OF MATERIALS:

1. 1X4 DOUGLAS FIR
2. 1X2 DOUGLAS FIR

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	SIGN	1	3/4 X 3 1/2 X 12
B	SUPPORT	1	3/4 X 1 1/2 X 24

NOTES:

1. ALL JOINTS TO BE ATTACHED WITH TWO SCREWS SET IN COUNTER SINK HOLES FROM BACK.

Name: _____

Class: _____

Date: _____

GARDEN SIGNS

Scale 1/4" = 1"

Difficulty Level

1



LIST OF MATERIALS:

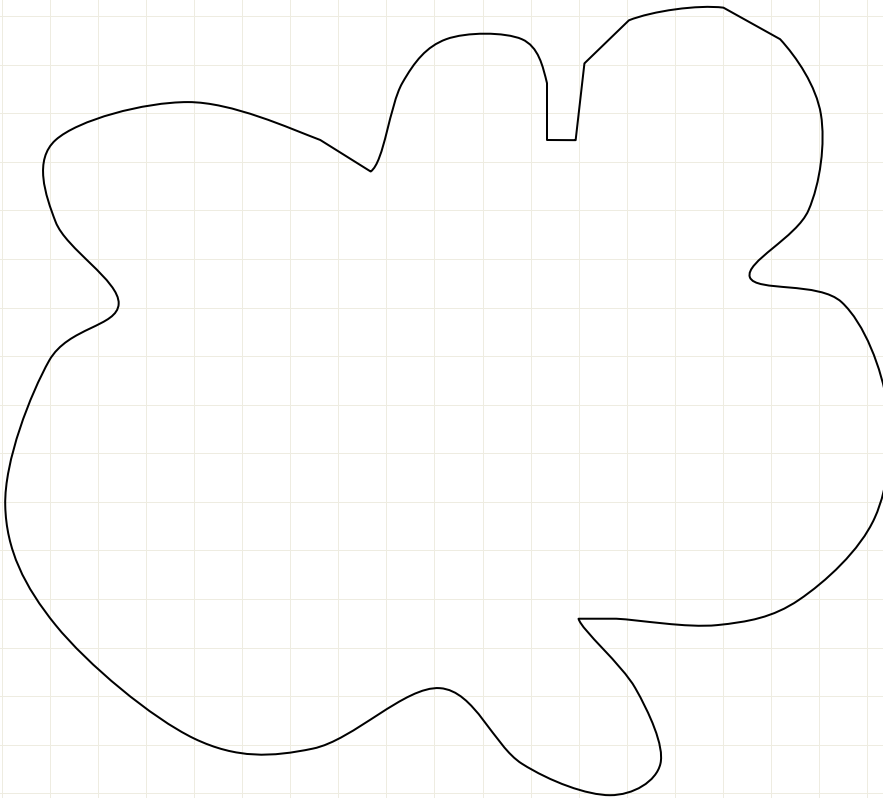
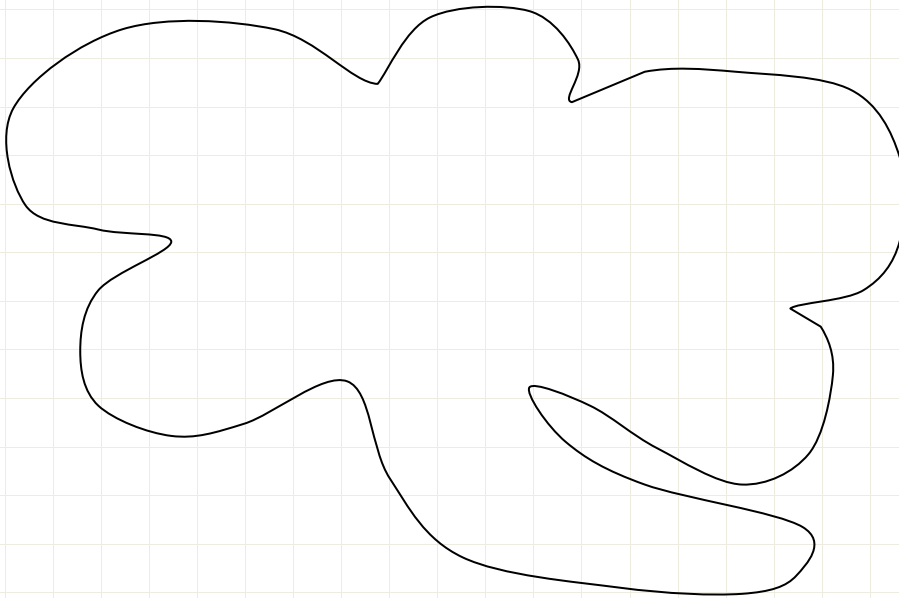
1. 1X4 DOUGLAS FIR
2. 3/8" DOWEL

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	SHAPES	1	3/4 X SEE PATTERN
B	STICK	1	3/8 X 12 DOWEL

NOTES:

1. ALL JOINTS TO BE GLUED INTO 3/8" HOLE IN BOTTOM OF FIGURE.



Name:

Class:

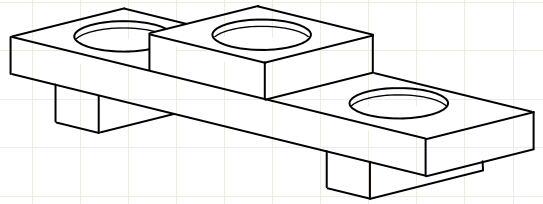
Date:

Pot Stickers

Scale 1/4" = 1"

Difficulty Level

1



LIST OF MATERIALS:

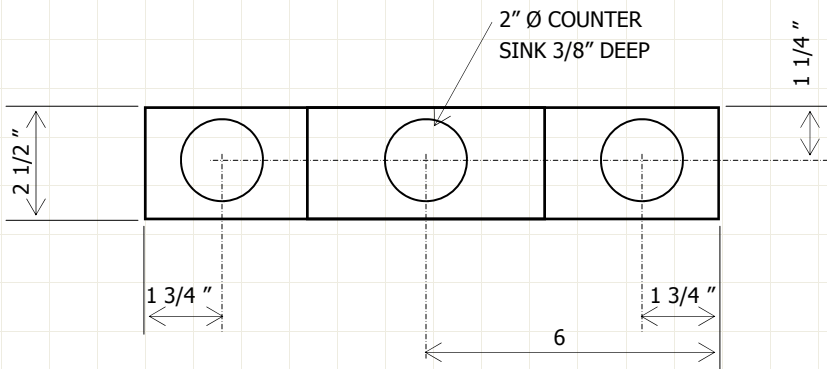
1. 1X3 DOUGLAS FIR
2. 1X2 DOUGLAS FIR

CUTTING SCHEDULE:

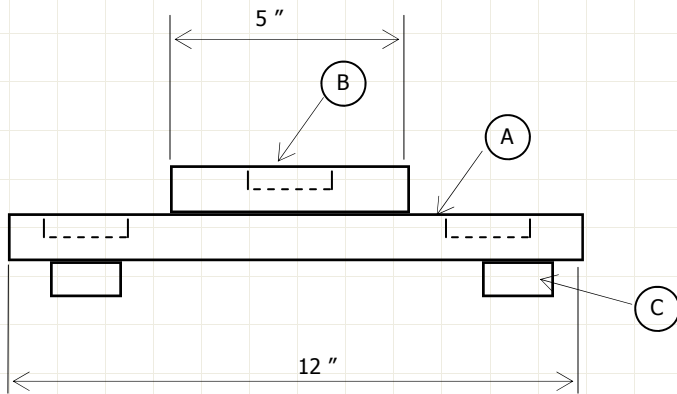
#	NAME	QTY	CUT SIZE
A	BOTTOM	1	3/4 X 2 1/2 X 12
B	TOP	1	3/4 X 2 1/2 X 5
C	RISER	2	3/4 X 1 1/2 X 2 1/2

NOTES:

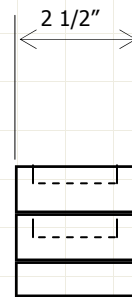
1. ALL JOINTS TO BE GLUED.



TOP VIEW



FRONT VIEW



RIGHT SIDE VIEW

Name:

Class:

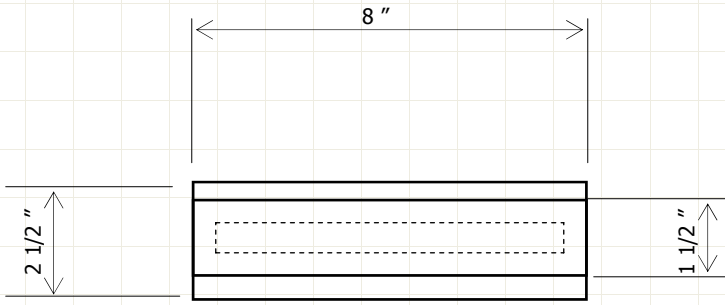
Date:

Candle Holder

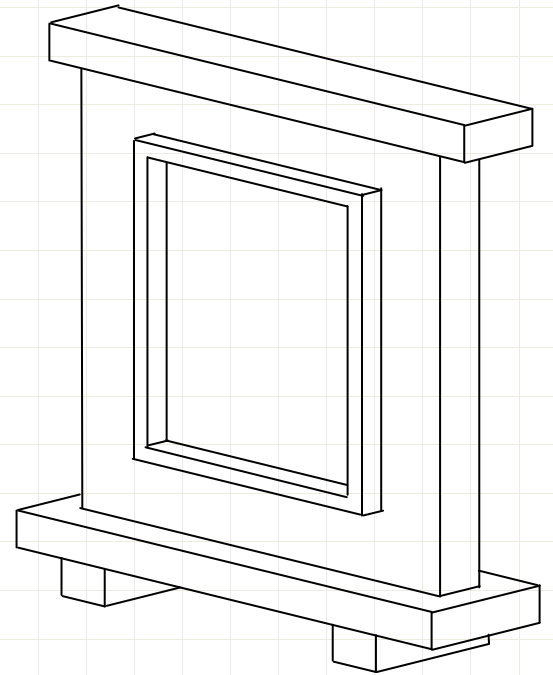
Scale 1/4" = 1"

Difficulty Level

1



TOP VIEW



LIST OF MATERIALS:

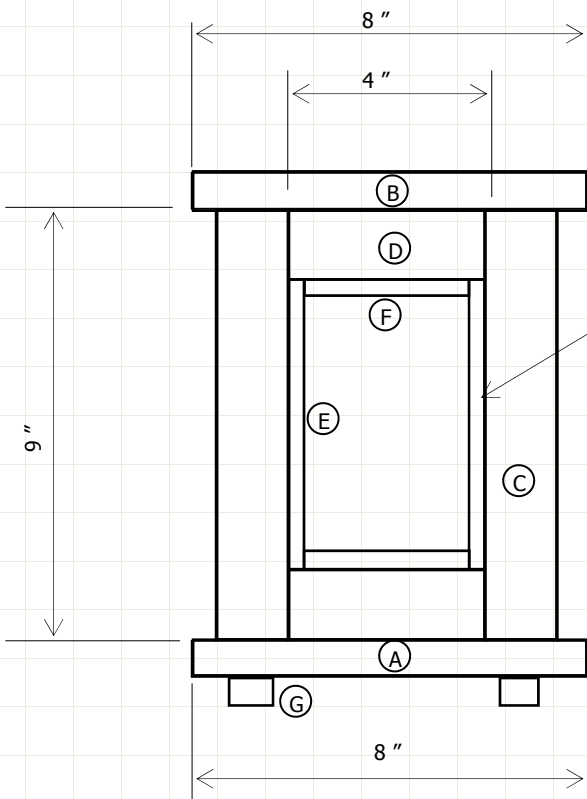
1. 1X3 DOUGLAS FIR
2. 1X2 DOUGLAS FIR
3. 1/2 X 3/4 DOWEL

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	BOTTOM	1	3/4 X 2 1/2 X 8
B	TOP	1	3/4 X 1 1/2 X 8
C	SIDE FRAME	2	3/4 X 1 1/2 X 9
D	FRAME	2	3/4 X 1 1/2 X 4
E	SIDE TRIM	2	1/2 X 3/4 X 6
F	TRIM	2	1/2 X 3/4 X 4
G	FEET	2	1/2 X 3/4 X 2 1/2

JOINERY:

1. ALL JOINTS TO BE GLUED.



FRONT VIEW



RIGHT SIDE VIEW

Name:

Class:

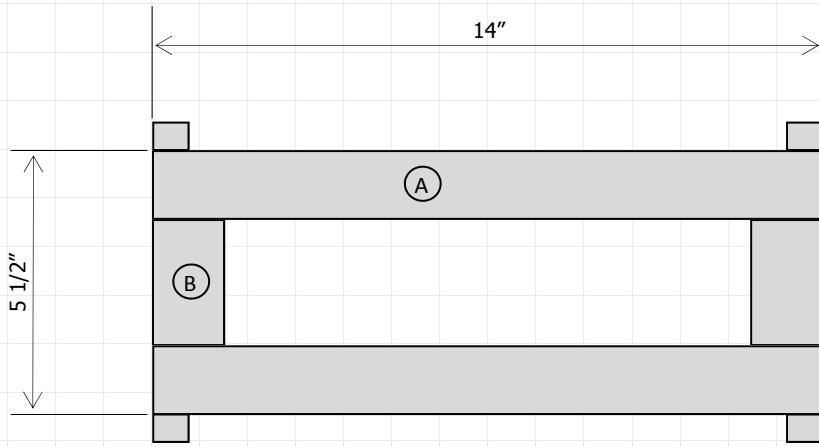
Date:

4x6 Picture Frame

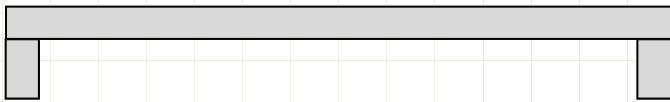
Scale 1/4" = 1"

Difficulty Level

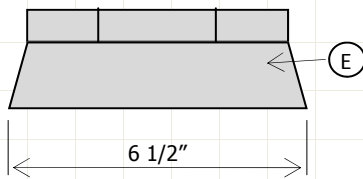
1



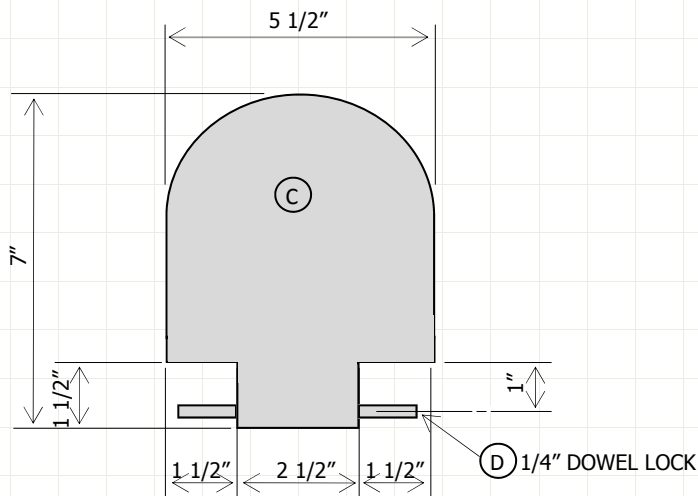
TOP VIEW



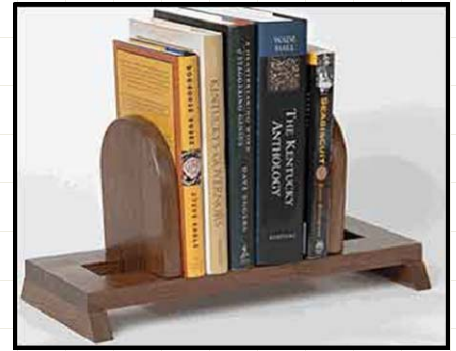
FRONT VIEW



SIDE VIEW



FRONT VIEW OF SUPPORT



LIST OF MATERIALS:

1. 1X3 DOUGLAS FIR (BOTTOM)
2. 1X6 DOUGLAS FIR (SUPPORT)
3. 1/4" Ø DOWEL

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	BASE, SIDE	2	3/4 X 1 1/2 X 14
B	BASE, END	2	3/4 X 1 1/2 X 2 1/2
C	SUPPORT	2	3/4 X 5 1/2 X 7
D	DOWEL	2	1/4" Ø X 1 1/2
E	FEET	2	3/4 X 1 1/2 X 6 1/2

REQUIRED TOOLS

1. MITER SAW
2. SCROLL SAW
3. DISC SANDER

JOINERY

1. GLUE—BUTT JOINT

Name:

Class:

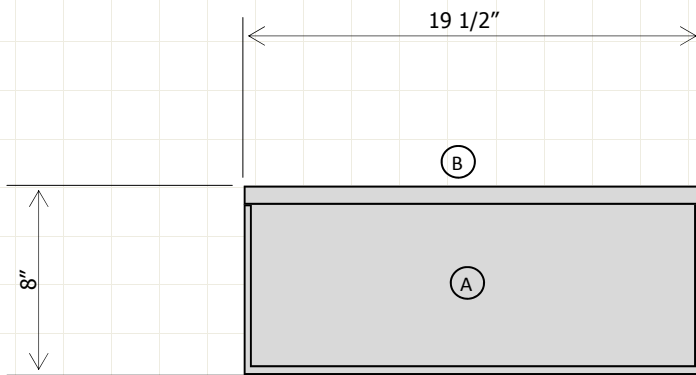
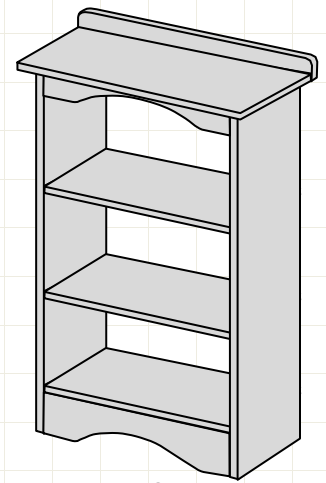
Date:

Book Holder

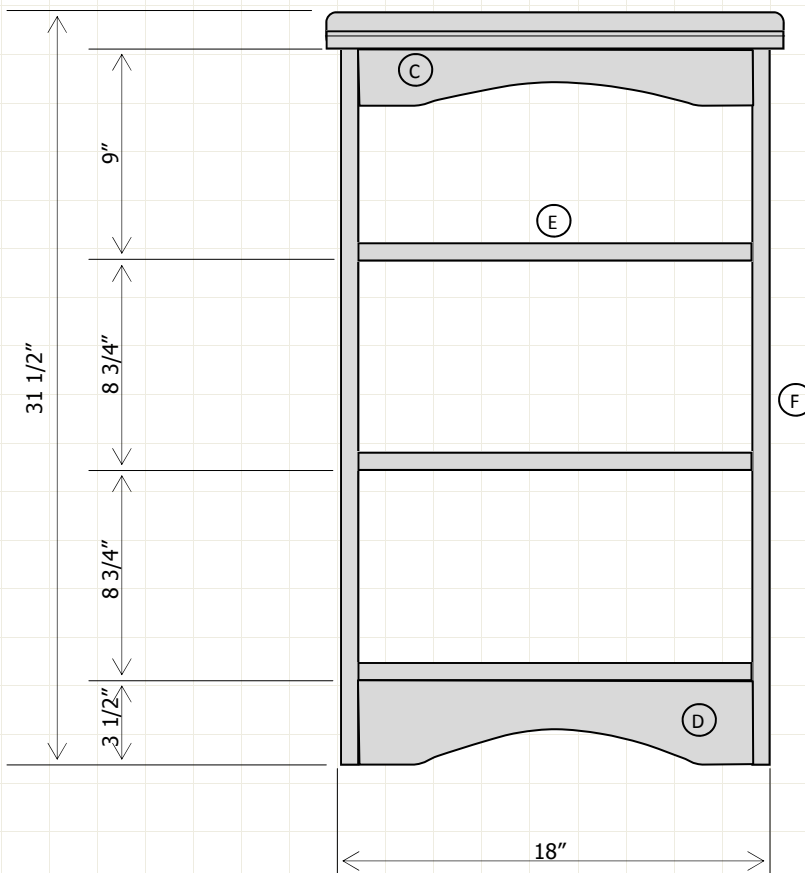
Scale 1/4" = 1"

Difficulty Level

1



TOP VIEW



FRONT VIEW

LIST OF MATERIALS:

1. 1X2 DOUGLAS FIR
2. 1X6 DOUGLAS FIR
3. 1X4 DOUGLAS FIR
4. 1X3 DOUGLAS FIR

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	TOP	1	3/4 X 5 1/2 X 19 1/2
B	BACK	1	3/4 X 1 1/2 X 19 1/2
C	DECO RAIL	1	3/4 X 2 1/2 X 16 1/2
D	DECO RAIL	1	3/4 X 3 1/2 X 16 1/2
E	SHELF	2	3/4 X 5 1/2 X 16 1/2
F	SIDE	2	3/4 X 51/2 X 30

REQUIRED TOOLS

1. MITER SAW
2. SCROLL SAW
3. DISC SANDER
4. ORBITAL SANDER
5. ROUTER

JOINERY

1. NAIL GUN

Name: _____
 Class: _____
 Date: _____

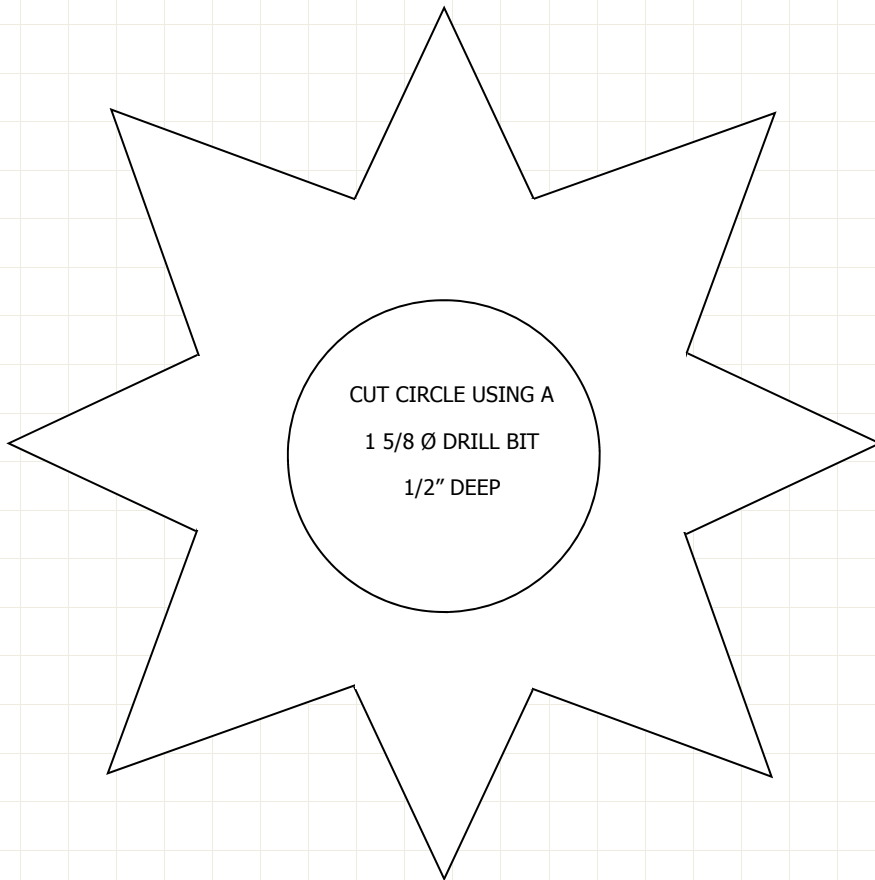
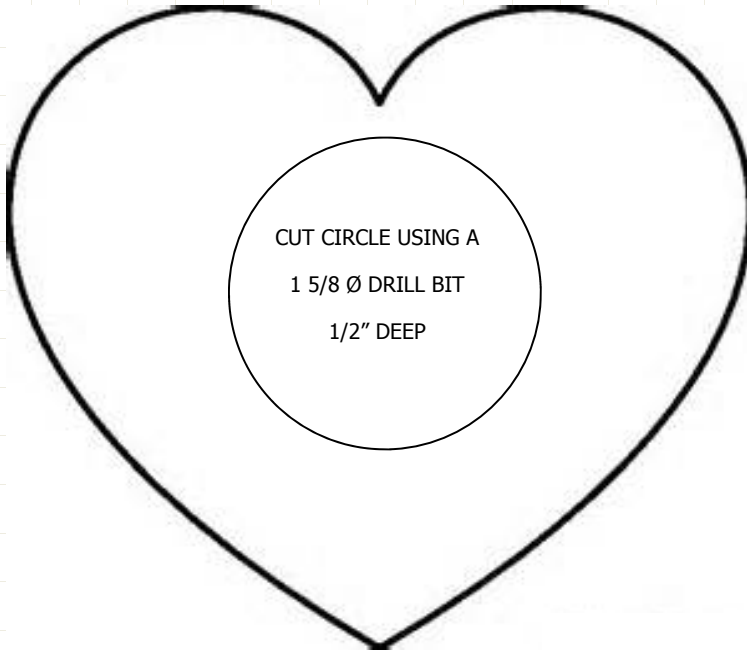
Book/DVD CASE

Scale 1/4" = 2"

Difficulty Level

1

CUT OUT PATTERN AND GLUE TO WOOD USING A SPRAY ADHESIVE. DRILL THE HOLE FIRST. THEN, CUT OUT PATTERN USING A SCROLL SAW.



LIST OF MATERIALS:

1. 1X6 DOUGLAS FIR

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A			
B			
C			
D			
E			
F			

REQUIRED TOOLS

1. MITER SAW
2. DRILL PRESS
3. SCROLL SAW

JOINERY

FUN OPTIONS

1. COME UP WITH YOUR OWN SHAPES OR USE AN ONLINE SHAPE BY DOING AN IMAGE SEARCH IN "COLORING PAGES" OF YOUR FAVORITE DESIGNS

Name:

Class:

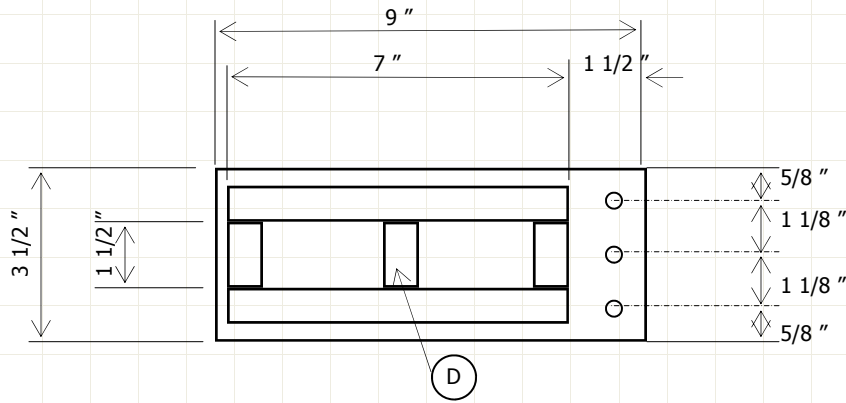
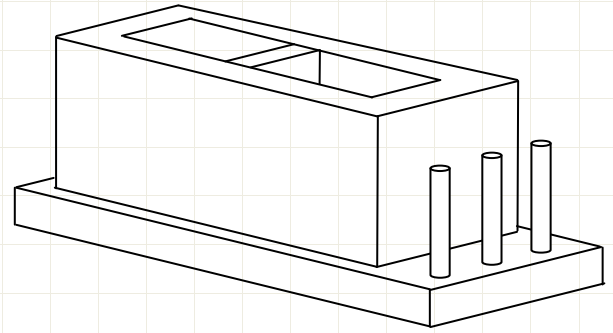
Date:

Candle Holder

Actual size

Difficulty Level

1



TOP VIEW

LIST OF MATERIALS:

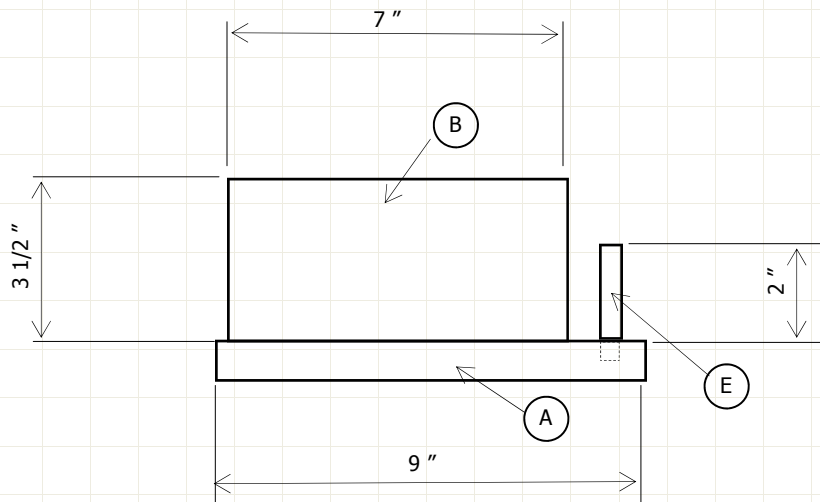
1. 1X4 DOUGLAS FIR
2. 1X2 DOUGLAS FIR
3. 3/8" DOWEL

CUTTING SCHEDULE:

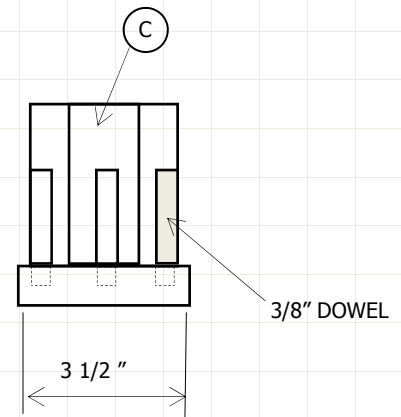
#	NAME	QTY	CUT SIZE
A	BOTTOM	1	3/4 X 3 1/2 X 9
B	SIDE	2	3/4 X 3 1/2 X 7
C	END	2	3/4 X 1 1/2 X 3 1/2
D	DIVIDER	1	3/4 X 1 1/2 X 3 1/2
E	DOWEL	3	3/8" X 2 1/2"

JOINERY:

1. ALL JOINTS TO BE GLUED.



FRONT VIEW



RIGHT SIDE VIEW

Name:

Class:

Date:

Office Mate

Scale 1/4" = 1"

Difficulty Level

1



LIST OF MATERIALS:

- 1X6 DOUGLAS FIR (BASE)
- 1X4 DOUGLAS FIR (HOLDERS)

CUTTING SCHEDULE:

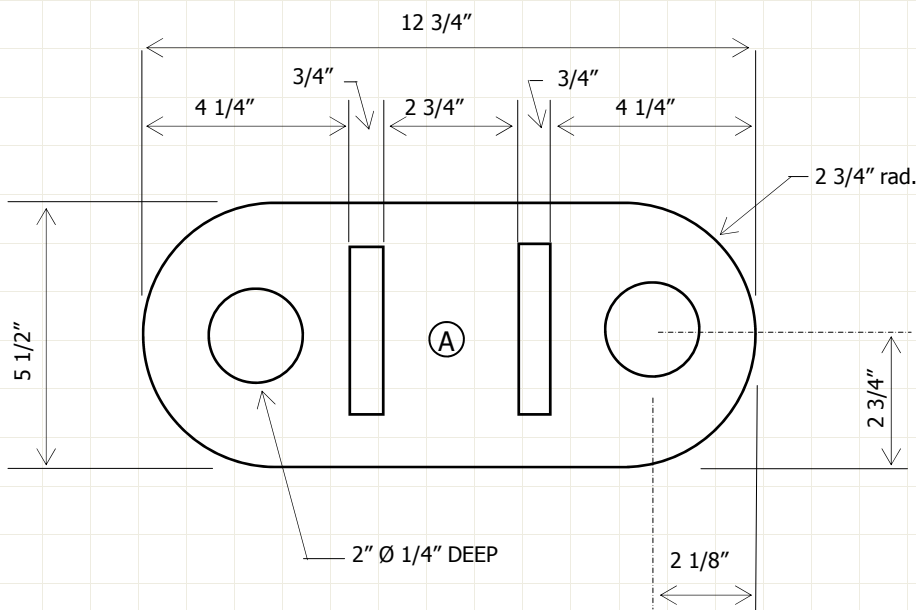
#	NAME	QTY	CUT SIZE
A	BOTTOM	1	3/4 X 5 1/2 X 12 3/4
B	HOLDERS	2	3/4 X 3 1/2 X 4 3/4

REQUIRED TOOLS

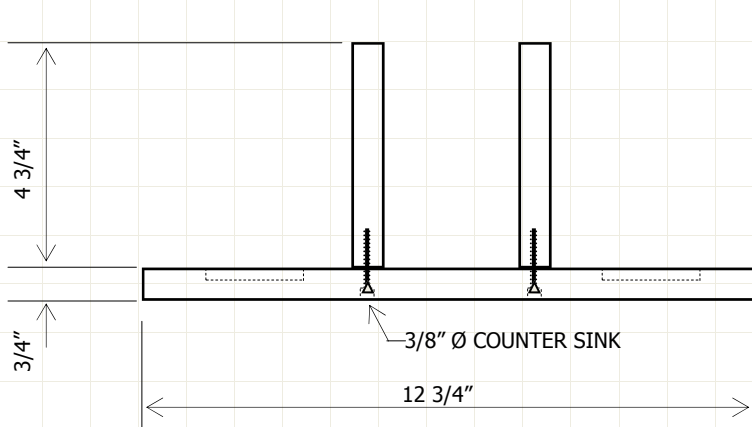
- MITER SAW
- DRILL PRESS
- PLANER

JOINERY

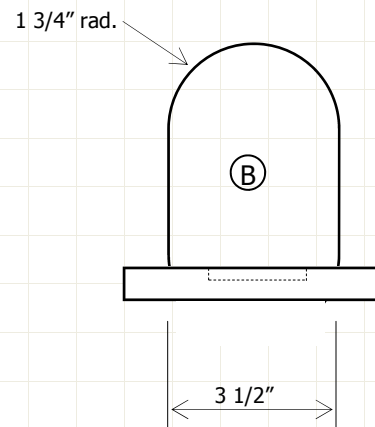
- SCREW—COUNTERSINK



TOP VIEW



FRONT VIEW



RIGHT SIDE VIEW

Name:

Class:

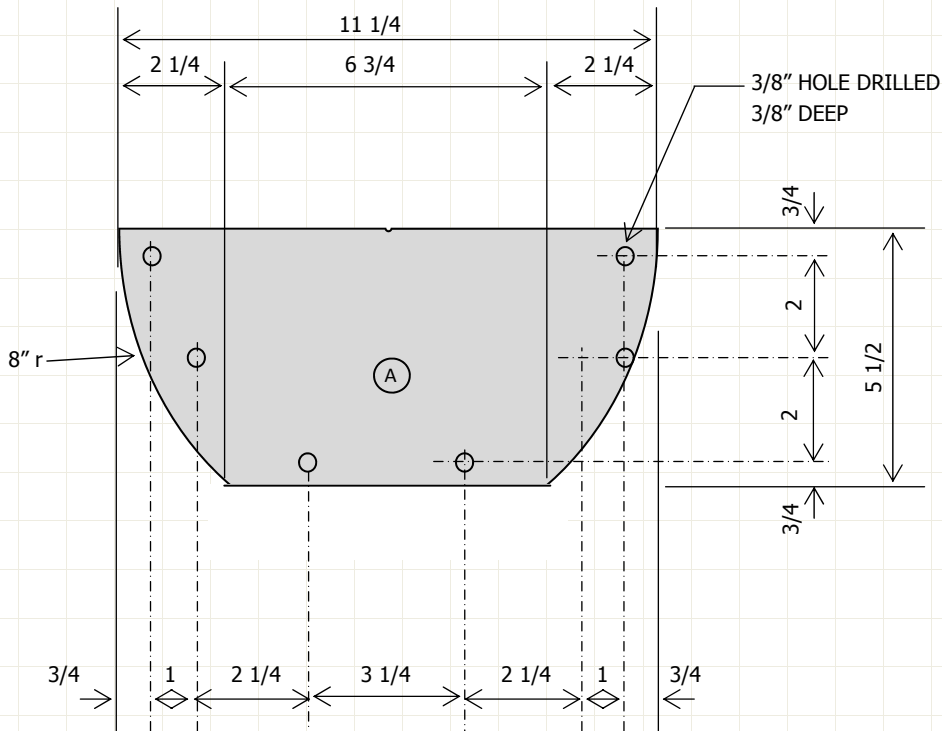
Date:

NAPKIN HOLDER

Scale 1/4" = 1"

Difficulty Level

1



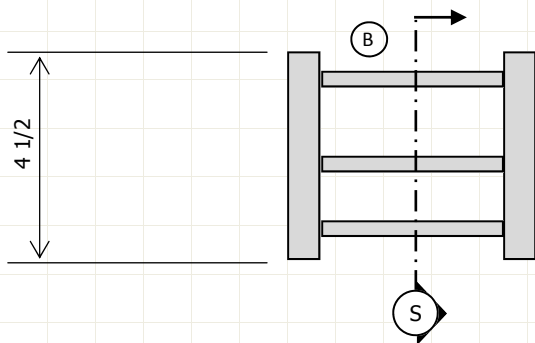
LIST OF MATERIALS:

1. 1X6 DOUGLAS FIR (SIDES)
2. 3/8" DOWEL

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	SIDE	2	3/4 X 5 1/2 X 11 1/4
B	DOWEL	6	3/8 X 3 3/4
C			
D			
E			
F			

S SECTION



SIDE VIEW

REQUIRED TOOLS

1. MITER SAW
2. DRILL PRESS
3. SCROLL OR BAND SAW
4. DISC SANDER

JOINERY

1. GLUE—COUNTER SINK DOWEL

FUN OPTIONS

1. WOOD BURN IMAGE INTO FRONT.
2. ROUTER EDGES WITH 1/4 ROUND

Name:

Class:

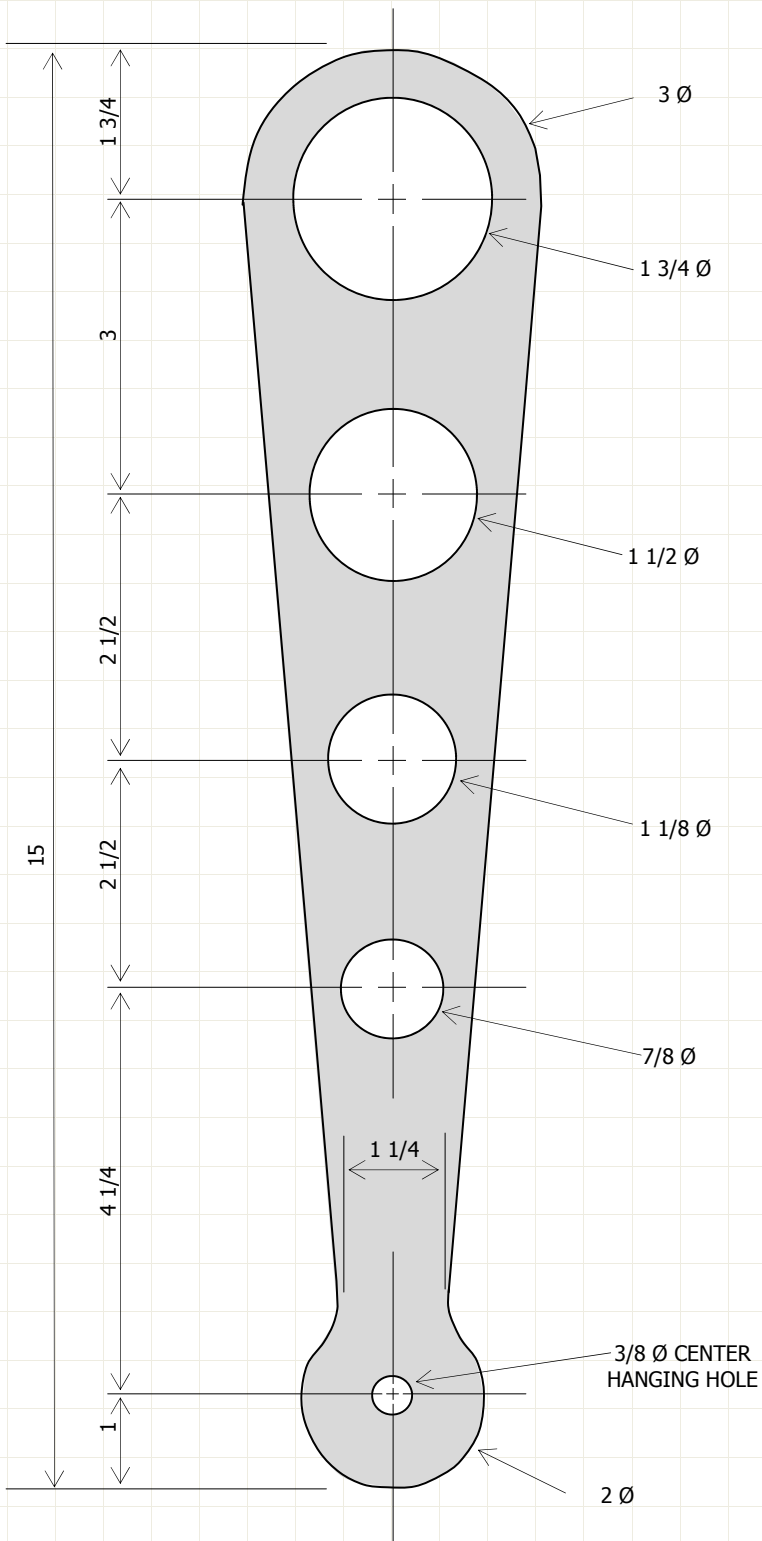
Date:

PAPER PLATE HOLDER

Scale 1/4" = 1"

Difficulty Level

1



LIST OF MATERIALS:

1. 1X4 DOUGLAS FIR

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	TOOL	1	3/4 X 3 X 15

REQUIRED TOOLS

1. MITER SAW
2. DRILL PRESS
3. PLANER

NOTES

1. ROUTER EDGES

FUN OPTIONS

1. LABEL HOLES BY WOOD BURNING

Name:

Class:

Date:

SPAGHETTI TOOL

Scale $1/4" = 1/2"$

Difficulty Level

1



LIST OF MATERIALS:

1. 1X4 DOUGLAS FIR (TOP AND BOTTOM)
2. 1X3 DOUGLAS FIR (SIDES)
3. 1X2 DOUGLAS FIR (BACK)
- 4.

CUTTING SCHEDULE:

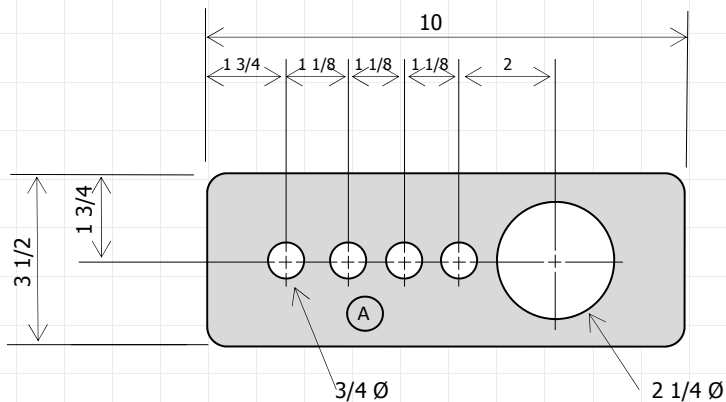
#	NAME	QTY	CUT SIZE
A	TOP	1	3/4 X 3 1/2 X 10
B	SIDE	2	3/4 X 2 1/2 X 3 1/2
C	BACK	1	3/4 X 1 1/2 X 8
D	BOTTOM	1	3/4 X 3 1/2 X 10

REQUIRED TOOLS

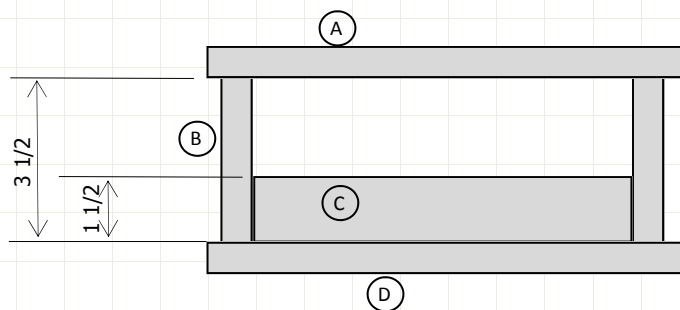
1. MITER SAW
2. DRILL PRESS
3. TABLE SANDER

JOINERY

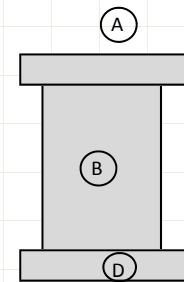
1. GLUE—BUTT JOINT



TOP VIEW



FRONT VIEW



RIGHT SIDE VIEW

Name:

Class:

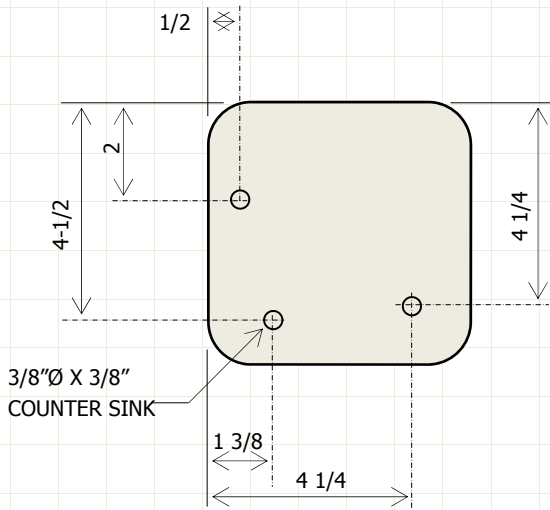
Date:

Toothbrush Holder

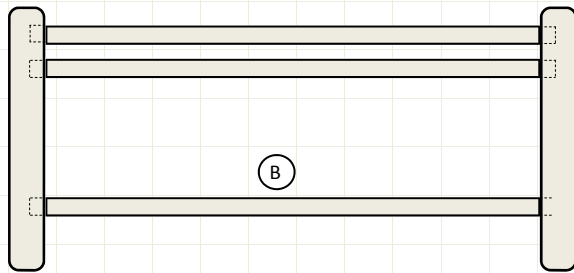
Scale 1/4" = 1"

Difficulty Level

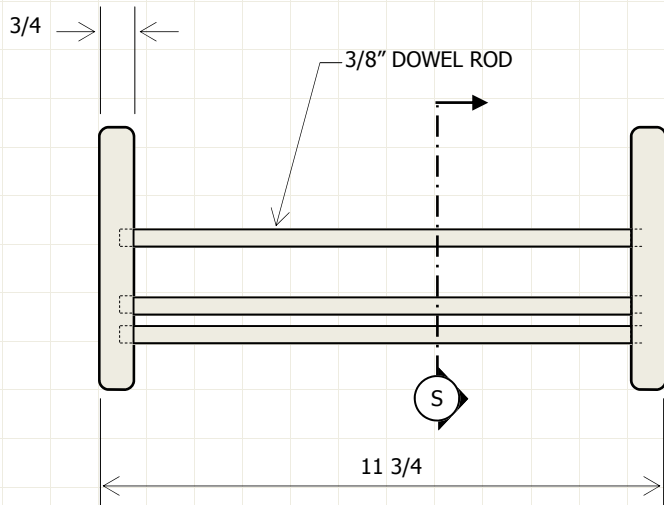
1



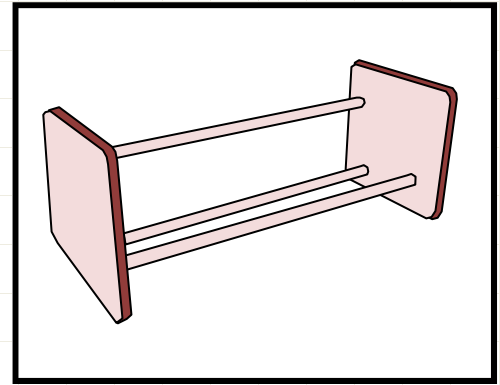
SECTION S



TOP VIEW



FRONT VIEW



LIST OF MATERIALS:

1. 1X6 DOUGLAS FIR (SIDES)
2. 3/8" DOWEL (RACK)

CUTTING SCHEDULE:

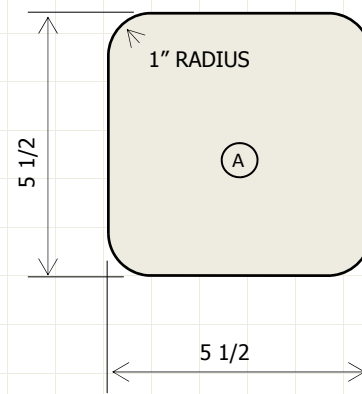
#	NAME	QTY	CUT SIZE
A	SIDE	2	3/4 X 5 1/2 X 5 1/2
B	RACK	3	3/8 DOWEL X 11

REQUIRED TOOLS

1. MITER SAW
2. DRILL PRESS
3. SCROLL SAW
4. TABLE SANDER

JOINERY

1. GLUE



RIGHT SIDE VIEW

Name: _____

Date: _____

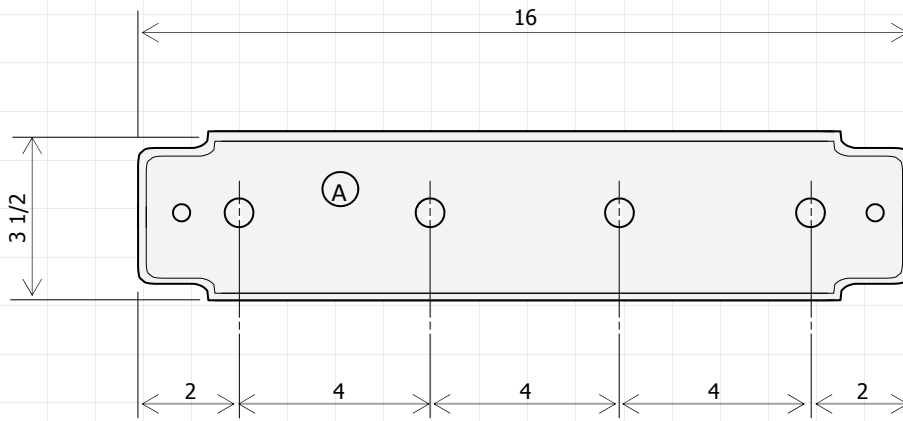
Class: _____

CD Holder

Scale 1/4" = 1"

Difficulty Level

1



FRONT VIEW



LIST OF MATERIALS:

1. 1X4 DOUGLAS FIR
2. SHAKER PEGS
3. SCREW CAPS

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	MOUNT	1	3/4 X 3 1/2 X 16
B	PEGS	4	

REQUIRED TOOLS

1. MITER SAW
2. DRILL PRESS
3. ROUTER
4. SCROLL SAW

JOINERY

1. GLUE

FUN OPTIONS

1. WOOD BURN DESIGNS

Name:

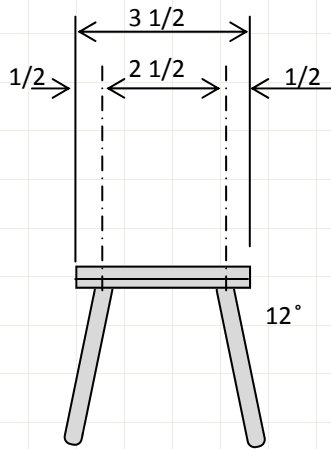
Class:

Date:

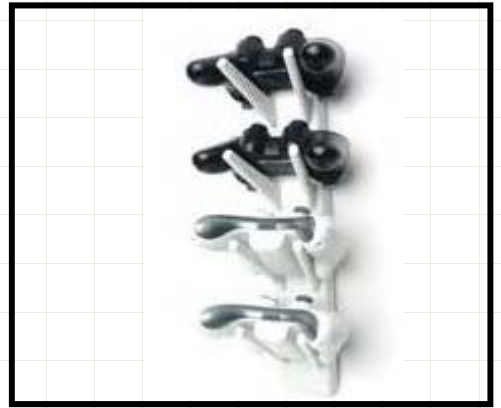
HAT RACK

Difficulty Level

1



TOP VIEW

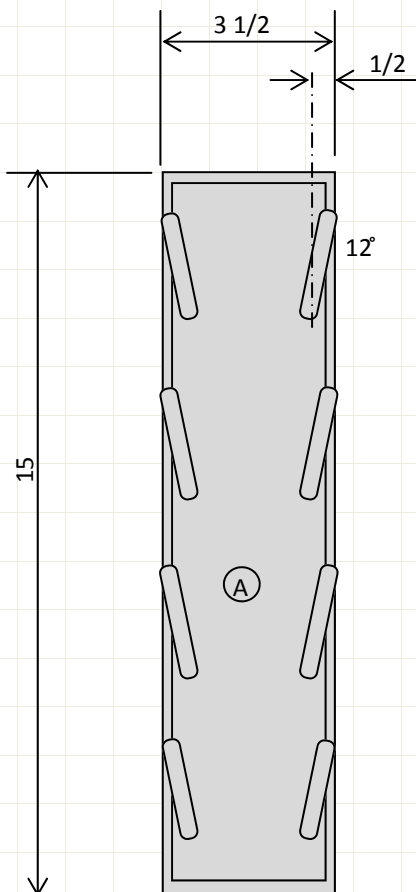


LIST OF MATERIALS:

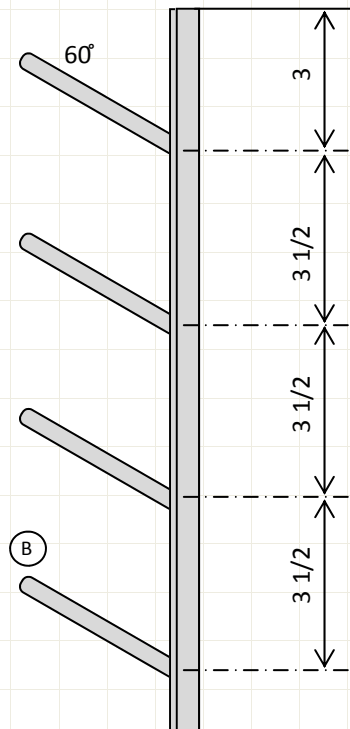
1. 1X4 DOUGLAS FIR
2. 3/8 Ø DOWEL

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	BACK	1	3/4 X 3 1/2 X 15
B	HANGER	8	3/8 Ø X 3 1/2



FRONT VIEW



SIDE VIEW

REQUIRED TOOLS:

1. MITER SAW
2. DRILL PRESS
3. ROUTER

JOINERY:

1. GLUE

Name:

Class:

Date:

GAME CONTROLLER RACK

Scale 1/4" = 1"

Difficulty Level

1



LIST OF MATERIALS:

1. 1X6 DOUGLAS FIR
2. 1X4 DOUGLAS FIR

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	BACK	1	3/4 X 5 1/2 X 5 1/2
B	HANGER	2	3/4 X 3 1/2 X 5



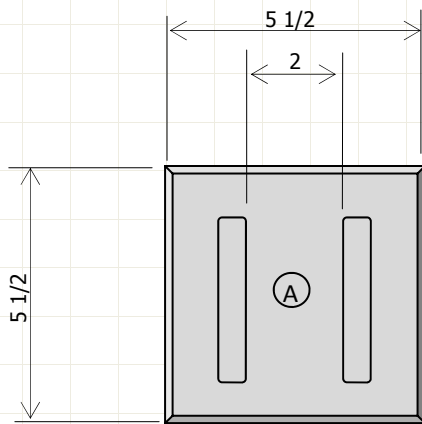
OTHER IDEAS

REQUIRED TOOLS

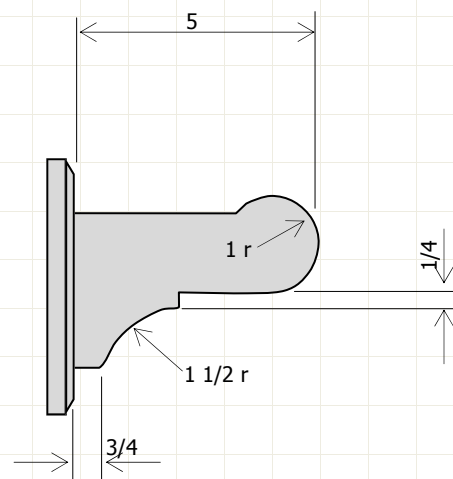
1. MITER SAW
2. DRILL PRESS
3. TABLE SANDER

JOINERY

1. SCREW—COUNTERSINK



FRONT VIEW



SIDE VIEW

Name:

Class:

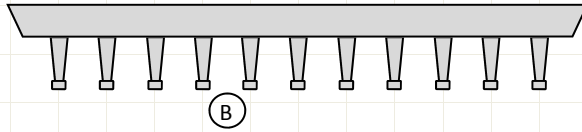
Date:

GUITAR HANGER

Scale 1/4" = 1"

Difficulty Level

1



TOP VIEW

LIST OF MATERIALS:

1. 1X3 DOUGLAS FIR
2. SHAKER PEGS (SMALL)

CUTTING SCHEDULE:

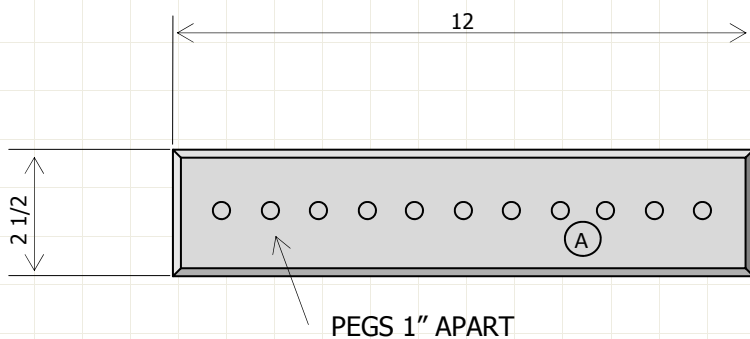
#	NAME	QTY	CUT SIZE
A	BACK	1	3/4 X 2 1/2 X 12
B	PEGS	11	SHAKER PEGS

REQUIRED TOOLS

1. MITER SAW
2. DRILL PRESS
3. ROUTER

JOINERY

1. GLUE



FRONT VIEW

Name:

Class:

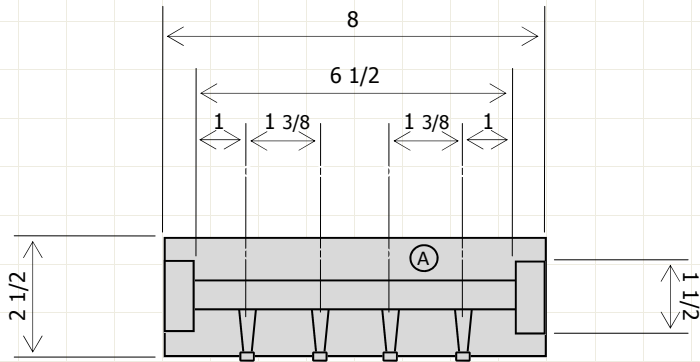
Date:

NECKLAS HOLDER

Scale 1/4" = 1"

Difficulty Level

1



TOP VIEW



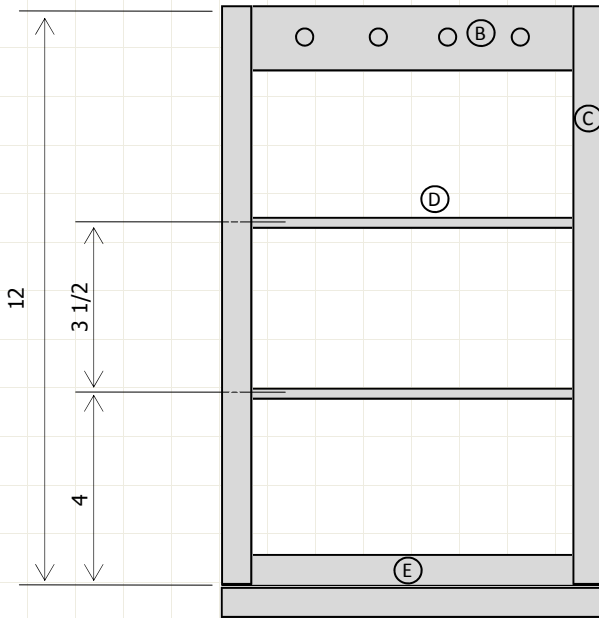
LIST OF MATERIALS:

1. 1X3 DOUGLAS FIR
2. 1X2 DOUGLAS FIR
3. 1/4 DOWEL
4. SHAKER PEGS

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	BOTTOM	1	3/4 X 2 1/2 X 8
B	NECKLAS	1	3/4 X 1 1/2 X 6 1/2
C	SIDE	2	3/4 X 1 1/2 X 12
D	RING RACK	2	1/4 DOWEL X 7 1/4
E	BASE	1	3/4 X 1 1/2 X 6 1/2

DRILL 1/4" Ø HOLE 3/8" DEEP IN THE CENTER OF EACH SIDE FOR RING RACK DOWELS



FRONT VIEW

REQUIRED TOOLS

1. MITER SAW
2. DRILL PRESS

JOINERY

1. GLUE

Name:

Class:

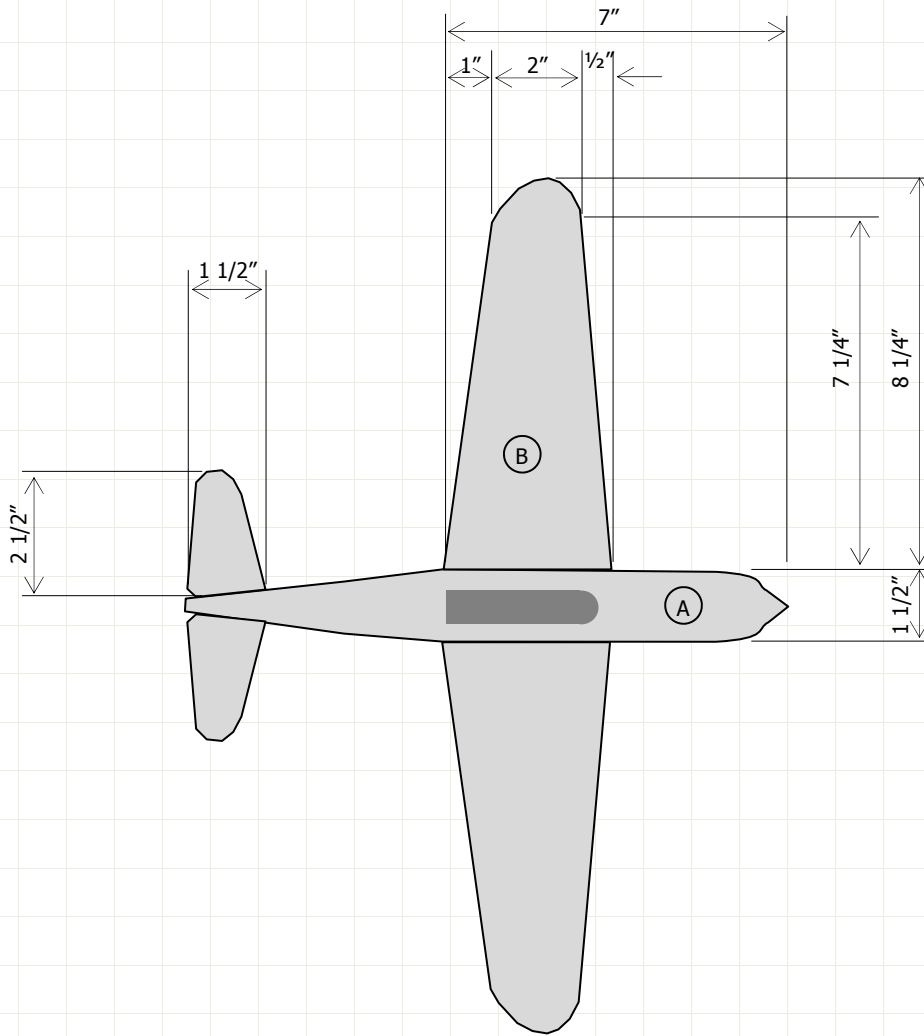
Date:

JEWELRY RACK

Scale 1/4" = 1"

Difficulty Level

1



LIST OF MATERIALS:

1. 2X4 DOUGLAS FIR
2. 1X4 DOUGLAS FIR
3. 1X3 DOUGLAS FIR

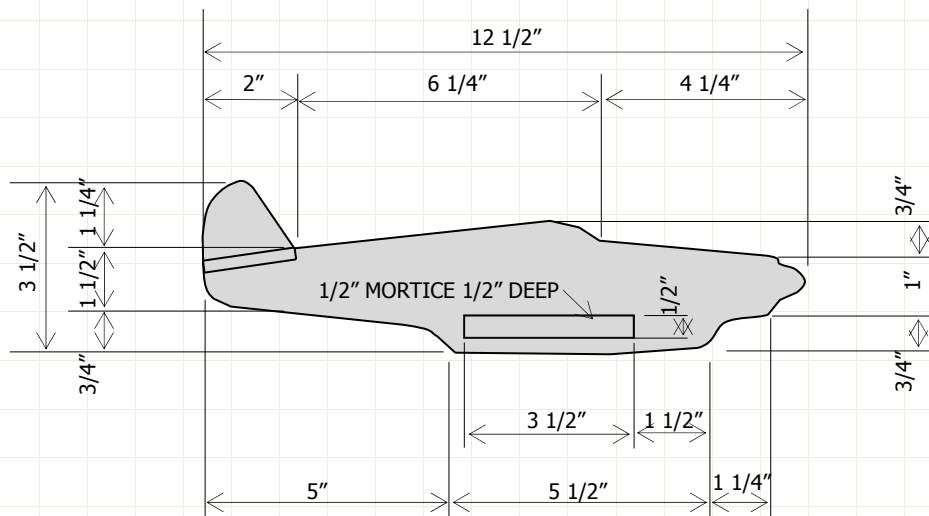
CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	BODY	1	1 1/2 X 3 1/2 X 12 1/2
B	WING	1	1/2 X 3 1/2 X 8 1/4
C	STABILIZER	2	3/8 X 1 1/2 X 2 1/2

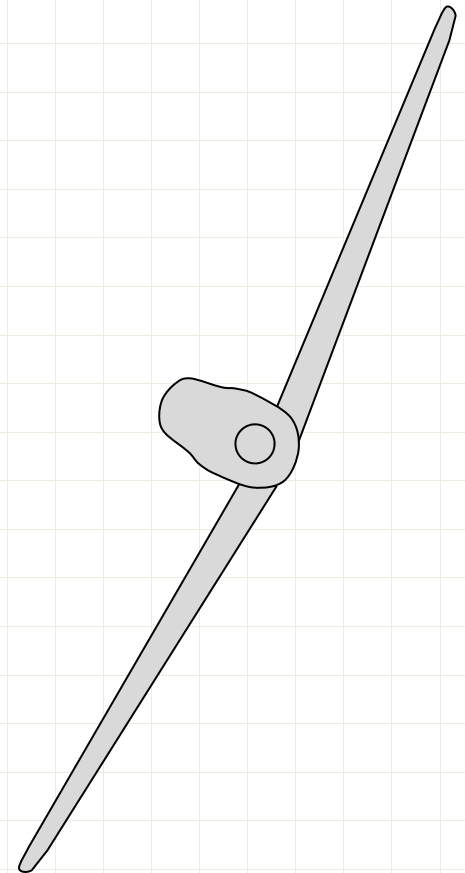
NOTES:

1. ALL JOINTS TO BE MORTICE AND TENON.

TOP VIEW



SIDE VIEW



Name:

Class:

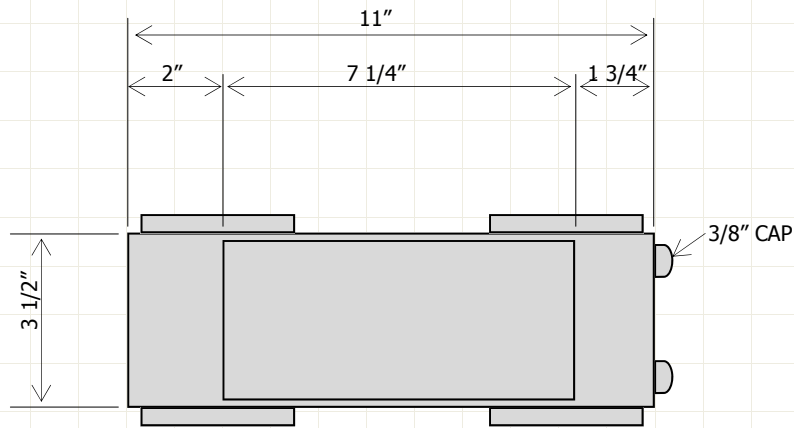
Date:

Toy Airplane

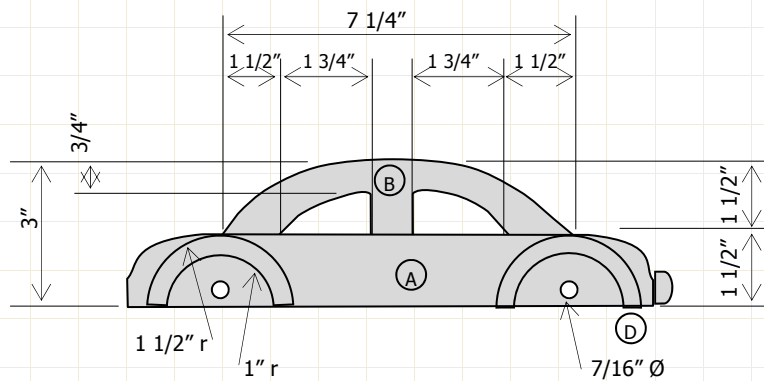
Scale 1/4" = 1"

Difficulty Level

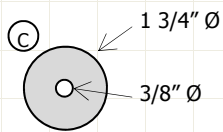
1



TOP VIEW



SIDE VIEW



WHEEL—SIDE VIEW



LIST OF MATERIALS:

1. 2X4 DOUGLAS FIR
2. 1X4 DOUGLAS FIR
3. 3/8 CAP
4. 1/4 PLY OR HARDWOOD

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	BODY	1	1 1/2 X 3 1/2 X 11
B	TOP	1	1 1/2 X 3 1/2 X 7 1/4
C	WHEEL	4	3/4 X 1 3/4 Ø
D	FINDER	4	1/4 X 3 Ø

JOINERY:

1. ALL JOINTS TO BE GLUED

Name: _____

Class: _____

Date: _____

Toy Car

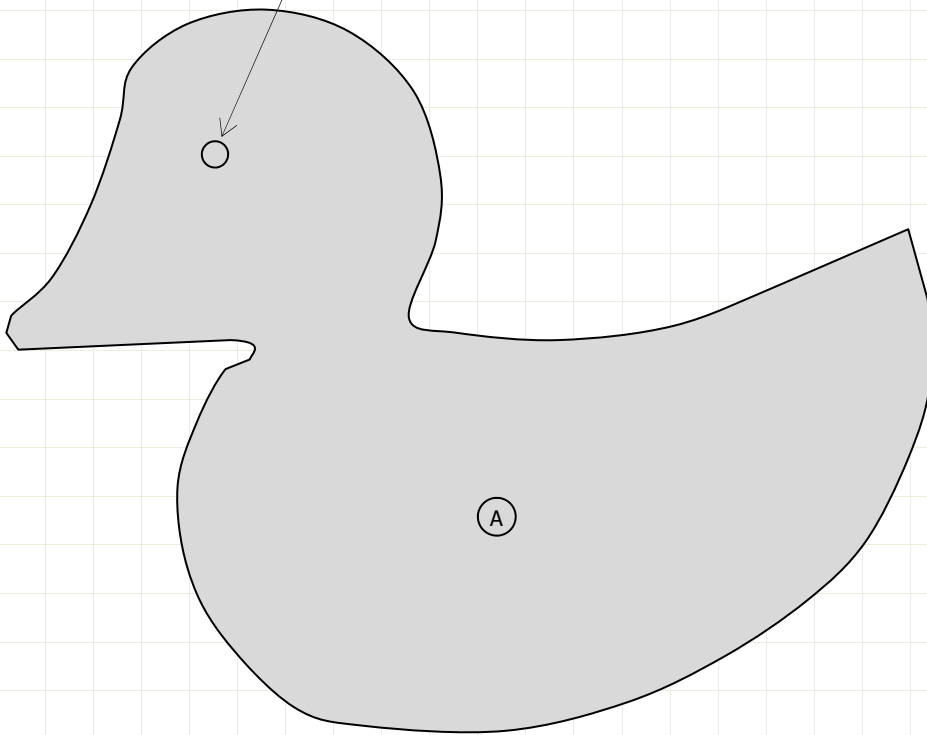
Scale 1/4" = 1"

Difficulty Level

1



USE 1/4 TAPERED DRILL BIT TO INDENT THE EYES



LIST OF MATERIALS:

1. 1X4 DOUGLAS FIR
2. 1X3 DOUGLAS FIR

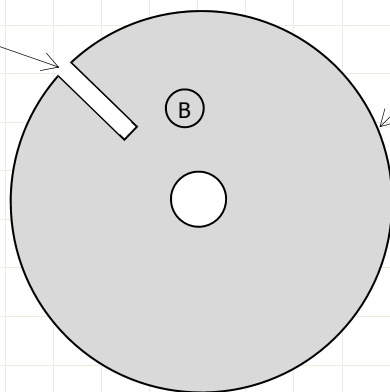
CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	BODY	1	3/4 X 3 1/2 X 4 3/4
B	WHEEL	2	3/4 X 2 Ø
C	HANDLE	1	3/8 DOWEL X 24

SIDE VIEW— ACTUAL SIZE

CUT OUT DUCK PATTERN AND ATTACH TO WOOD

CUT GROOVE FOR
LEATHER DUCK FEET



2" Ø WITH 3/8 Ø HOLE IN THE CENTER FOR DOWEL

WHEEL

Duck Push Toy

Full Scale

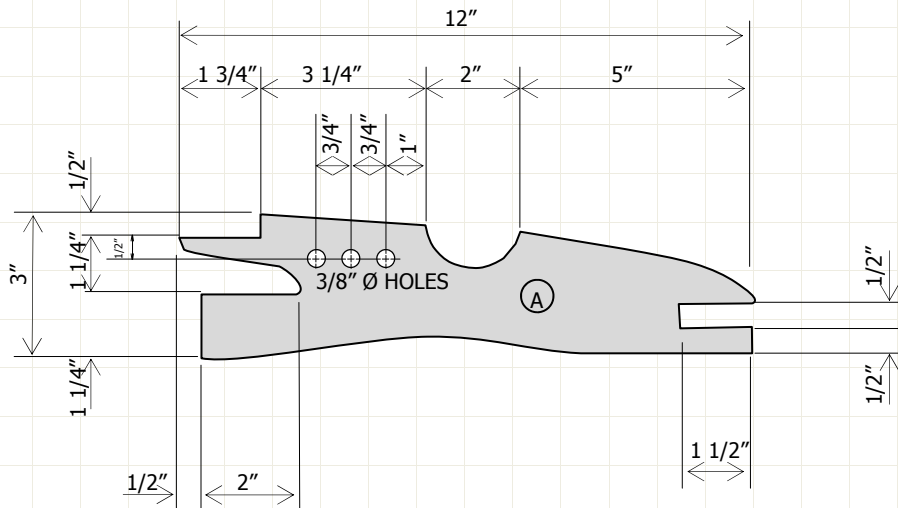
Difficulty Level

1

Name:

Class:

Date:



SIDE VIEW BODY

LIST OF MATERIALS:

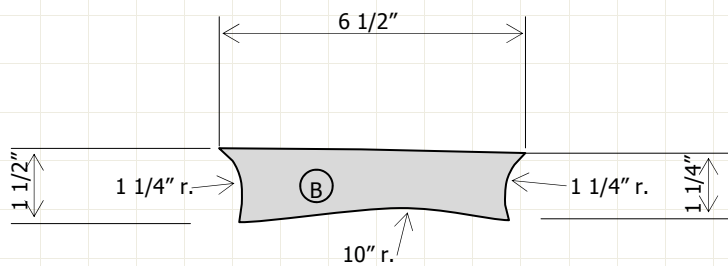
1. 2X4 DOUGLAS FIR
2. 1X2 DOUGLAS FIR

CUTTING SCHEDULE:

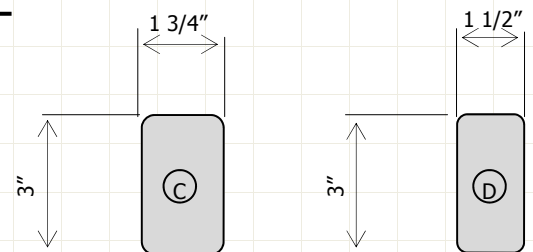
#	NAME	QTY	CUT SIZE
A	BODY	1	1 1/2 X 3 X 12
B	FINDER	2	3/4 X 1 1/2 X 6 1/2
C	B. SPOILER	1	1/2 X 1 1/2 X 3
D	F. SPOILER	1	1/2 X 1 3/4 X 3
E	WHEEL	4	3/4 X 2 1/2 Ø

NOTES

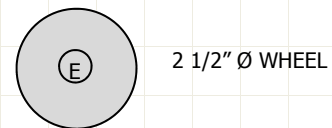
1. ALL JOINTS TO BE GLUED.



SIDE VIEW FINDER



SPOILERS



WHEEL

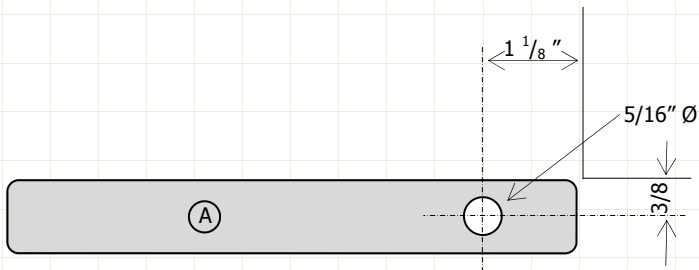
Name: _____
 Class: _____
 Date: _____

Toy Race Car

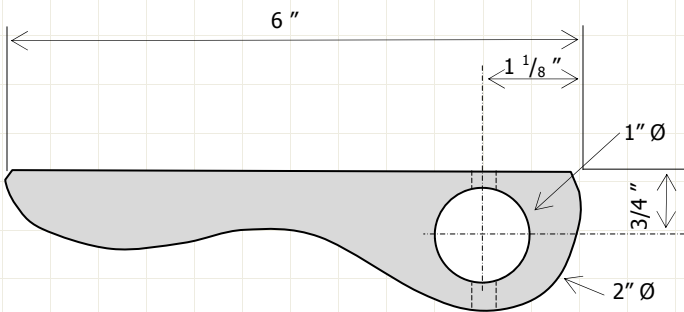
Scale 1/4" = 1"

Difficulty Level

1



TOP VIEW



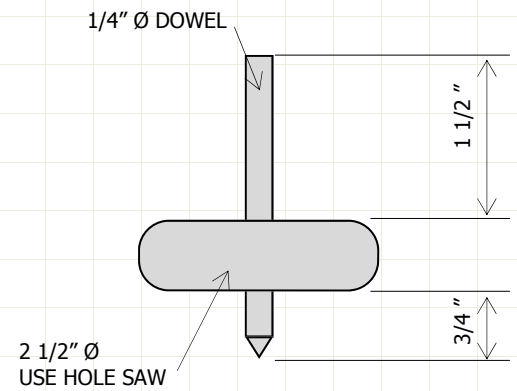
FRONT VIEW

LIST OF MATERIALS:

1. 1X2 HARDWOOD HANDLE
2. 1X3 DOUGLAS FIR

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	HANDLE	1	3/4 X 1 1/2 X 6
B	TOP	1	3/4 X 2 1/2 Ø
C	DOWEL	1	3/8 X 3



SPINNING TOP

Name:

Class:

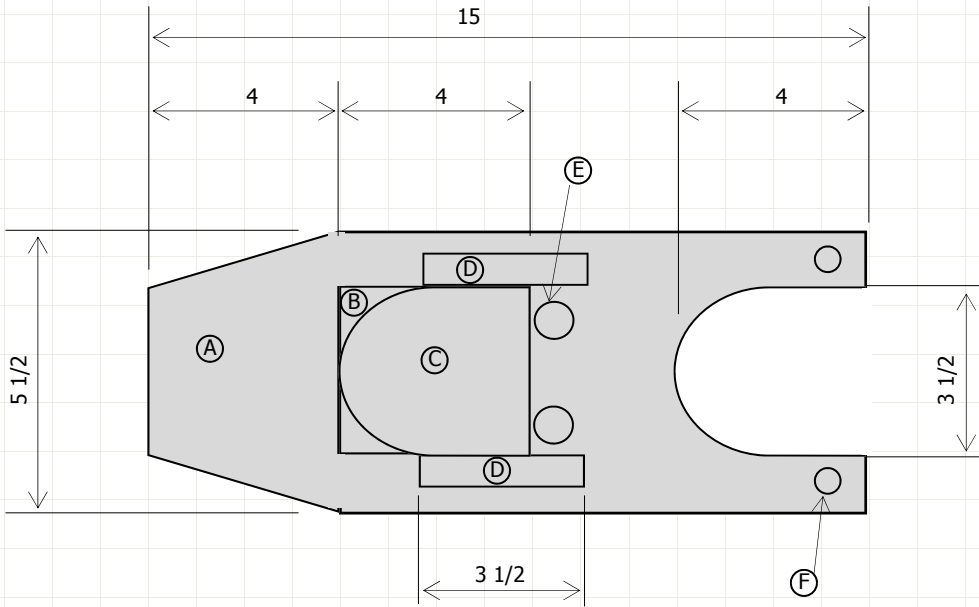
Date:

Spinning Top

Scale 1/4" = 1/2"

Difficulty Level

1



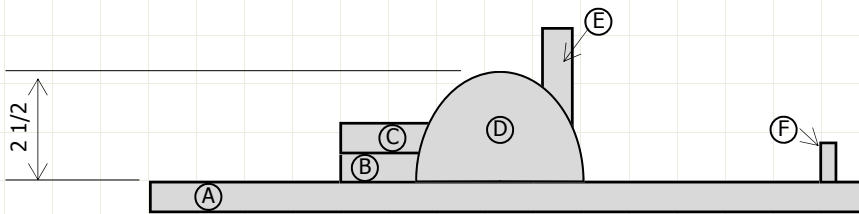
TOP VIEW

LIST OF MATERIALS:

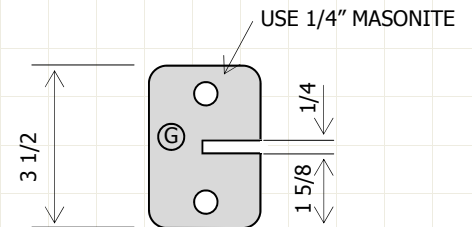
1. 1X6 DOUGLAS FIR
2. 1X4 DOUGLAS FIR
3. 3/8 Ø DOWEL
4. 3/4 Ø DOWEL
5. 1/4 MASONITE

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	BOTTOM	1	3/4 X 5 1/2 X 15
B	DECK	1	3/4 X 3 1/2 X 4
C	TOP DECK	1	3/4 X 3 1/2 X 4
D	SIDE	2	3/4 X 3 1/2 X 2 1/2
E	STACK	2	3/4 Ø DOWEL X 4
F	MOTOR	2	3/4 Ø DOWEL X 4
G	MASONITE	2	1/4 X 3 1/2 X 2 1/2



SIDE VIEW



PADDLE PLAN

Name:

Class:

Date:

Toy Boat

Scale 1/4" = 1"

Difficulty Level

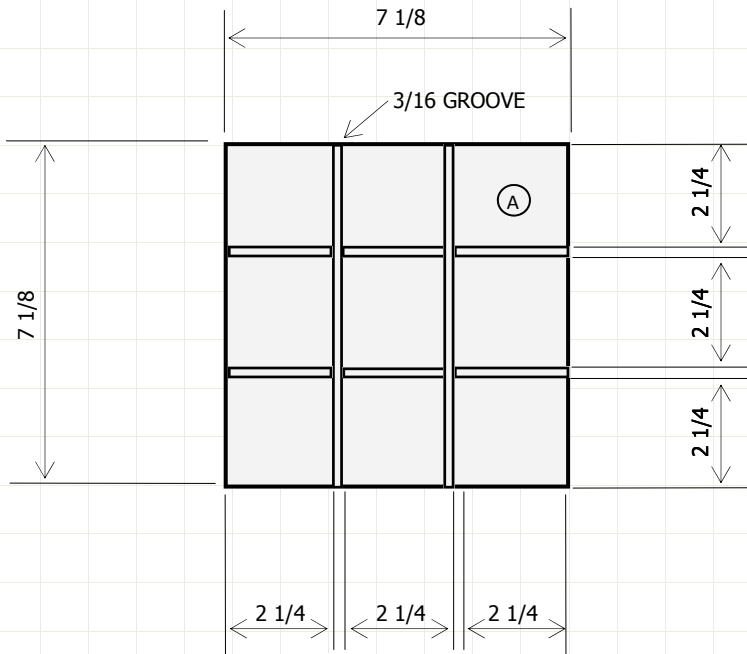
1

Advanced Projects

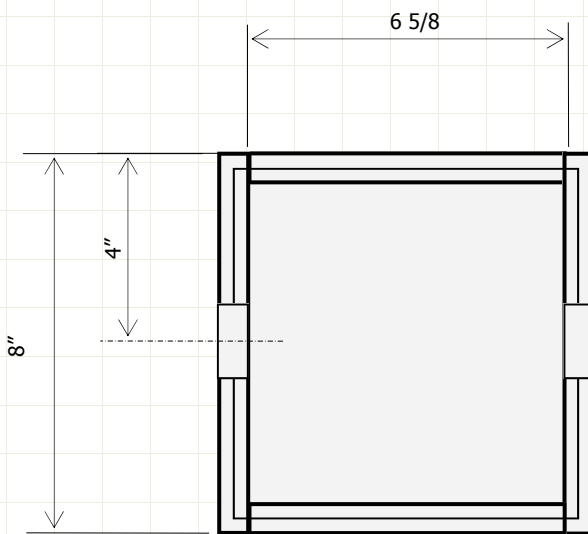


*A*dvanced wood

d · e · s · i · g · n · s



GAME BOARD-TOP VIEW



GAME BOX-TOP VIEW

LIST OF MATERIALS:

1. 1X4 DOUGLAS FIR
2. 1X8 DOUGLAS FIR
3. 1X2 DOUGLAS FIR

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	TOP	1	3/4 X 7 1/8 X 7 1/8
B	BOTTOM	1	3/4 X 7 1/8 X 7 1/8
C	SIDE	2	3/4 X 3 1/2 X 7 7/8
D	SIDE	2	3/4 X 3 1/2 X 6 3/8
E	X's	5	3/4 X 1 1/2 X 1 1/2
F	O's	5	3/4 X 1 1/2 Ø

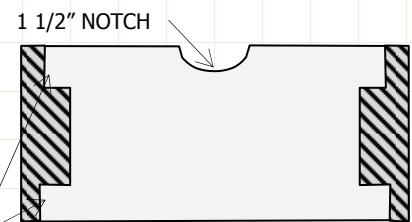
REQUIRED TOOLS

1. MITER SAW
2. ROUTER

JOINERY

1. GLUE—BUTT JOINT

ROUTER 3/8 X 3/4 RABBET TOP AND BOTTOM. ROUTER AFTER BOX IS ASSEMBLED



GAME BOX-SECTION



DRILL CENTER HOLE FIRST AT 3/8 Ø. THEN, USE SCROLL SAW FOR SHAPING X PIECE.



DRILL 1 1/2 Ø HOLE SAW FOR PLAYING PIECE. THEN DRILL CENTER HOLE AT 3/8 Ø. USE CIRCLE CLAMP.

PLAYING PIECES

Name:

Class:

Date:

Tic-tac-toe Box

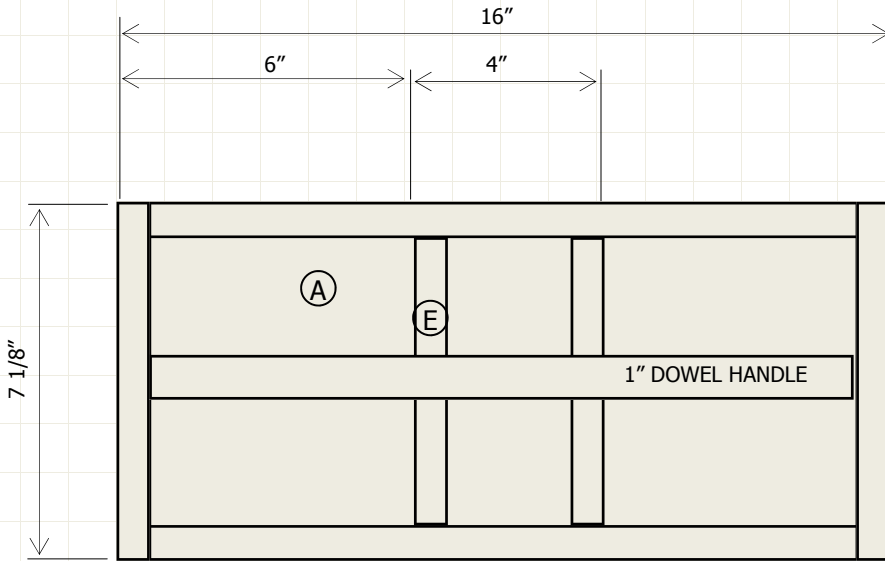
Scale 1/4" = 1"

Difficulty Level

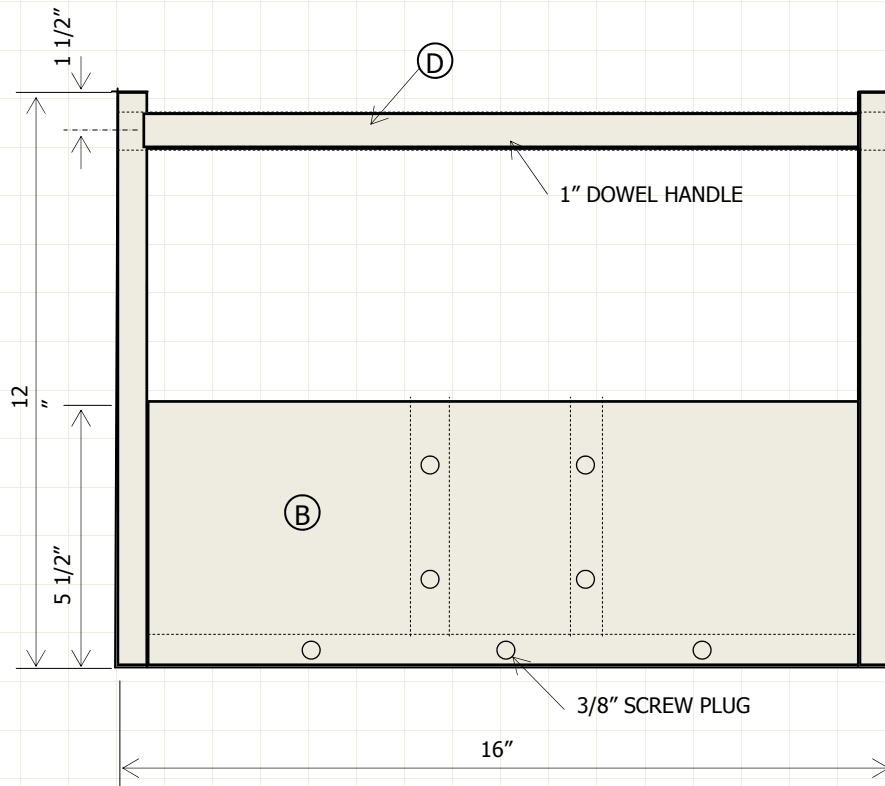
2

NOTES:

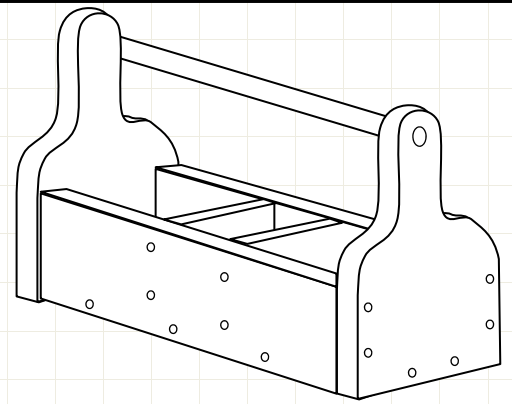
1. ALL JOINTS TO HAVE SCREW FASTNERS
2. COUNTER SINK AND PLUG SCREW HOLES



TOP VIEW



FRONT VIEW

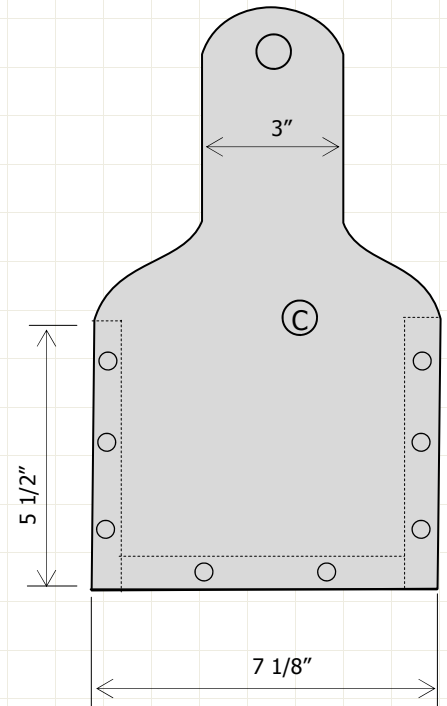


LIST OF MATERIALS:

1. 1X6 DOUGLAS FIR
2. 1X8 DOUGLAS FIR
3. 1" DOWEL
4. 3/8" WOOD CAPS OR PLUGS

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	BOTTOM	1	3/4 X 5 1/2 X 14 1/2
B	SIDE	2	3/4 X 5 1/2 X 14 1/2
C	END	2	3/4 X 7 1/8 X 12
D	HANDLE	1	1" DOWEL X 16
E	DIVIDER	2	3/4 X 5 1/2 X 5 5/8



RIGHT SIDE VIEW

Name:

Class:

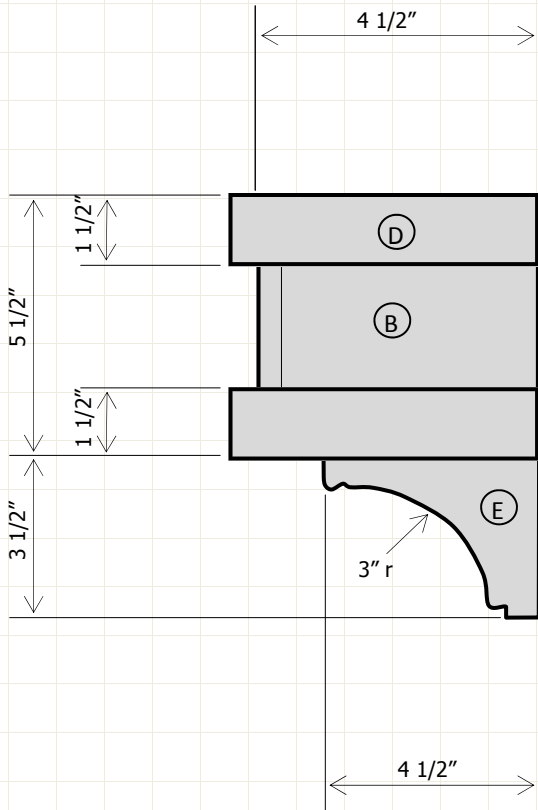
Date:

Garden Toolbox

Scale 1/4" = 1"

Difficulty Level

2



RIGHT SIDE VIEW

LIST OF MATERIALS:

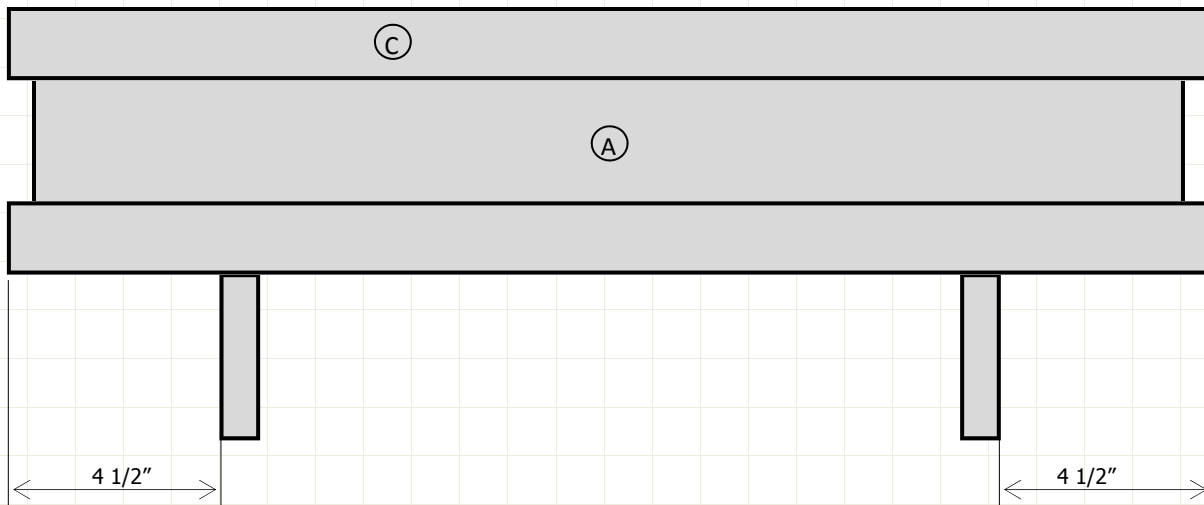
1. 1X6 DOUGLAS FIR
2. 1X2 DOUGLAS FIR
3. 1X3 DOUGLAS FIR

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	FRONT	1	3/4 X 5 1/2 X 24
B	SIDE	2	3/4 X 5 1/2 X 5 1/2
C	FACE TRIM	2	3/4 X 1 1/2 X 25 1/2
D	SIDE TRIM	2	3/4 X 1 1/2 X 7
E	BRACE	2	3/4 X 4 1/2 X 3 1/2
F	BOTTOM	1	3/4 X 5 1/2 X 5 1/2
G	BACK	1	3/4 X 2 1/2 X 22 1/2

JOINERY:

1. NAIL GUN JOINTS
2. MITER JOINT TOP AND BOTTOM DECORATIVE RAILS



FRONT VIEW

Name:

Class:

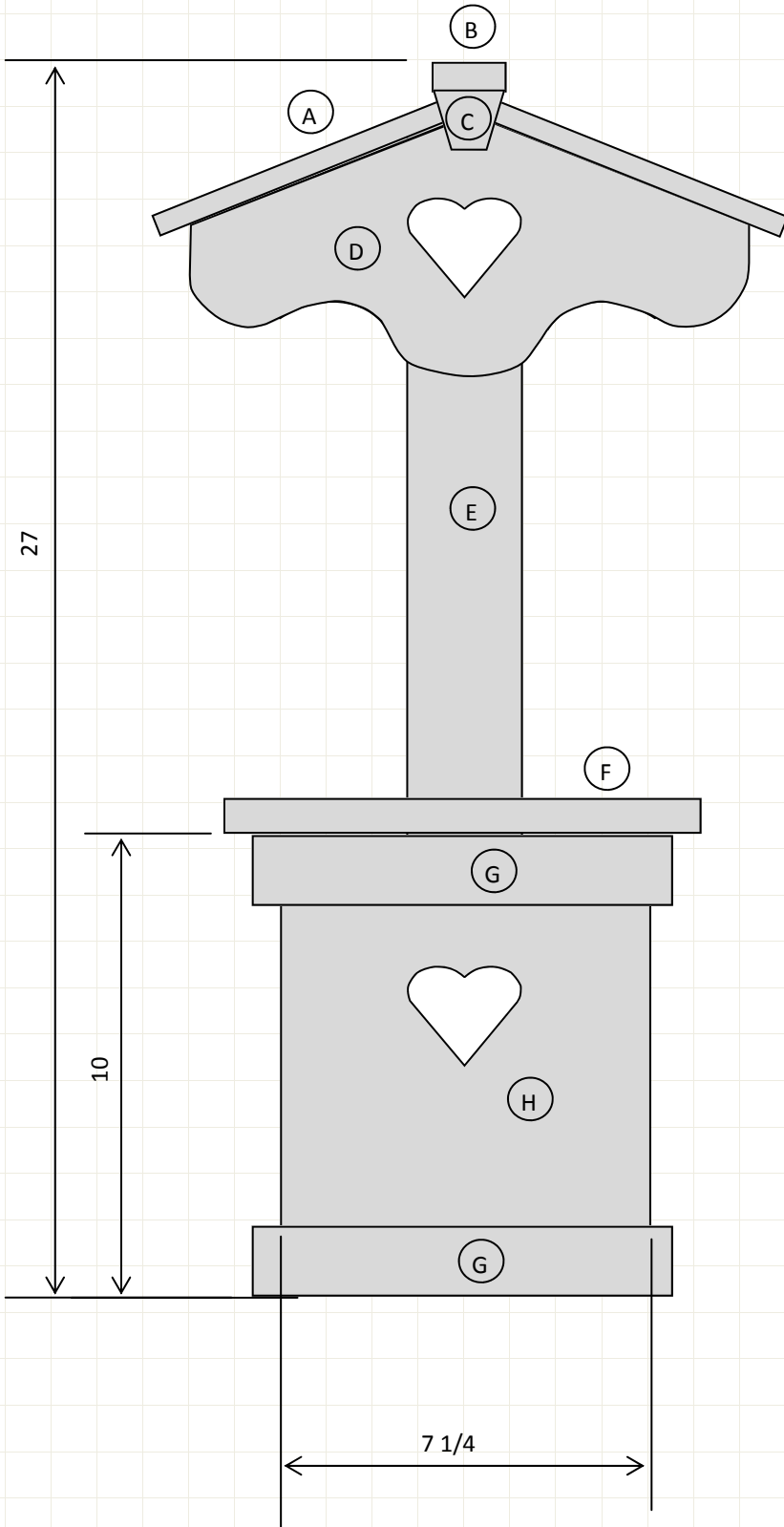
Date:

Window Box

Scale 1/4" = 1"

Difficulty Level

2



LIST OF MATERIALS:

1. 1X8 DOUGLAS FIR (TOP AND SIDES)
2. 1X2 DOUGLAS FIR (RIDGE AND DECO)
3. 1X6 DOUGLAS FIR (ROOF SIDE AND BOTTOM)
4. 1X3 DOUGLAS FIR (RISER AND RAILS)

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	TOP	2	3/4 X 7 1/4 X 14
B	RIDGE	1	3/4 X 1 1/2 X 15 1/2
C	DECO	2	3/4 X 1 1/2 X 2
D	ROOF SIDE	2	3/4 X 5 1/2 X 13
E	RISER	2	3/4 X 2 1/2 X 25
F	BOX TOP	4	3/4 X 2 1/2 X 10
G	SIDE RAIL	8	3/4 X 2 1/2 X 8 3/4
H	SIDE	4	3/4 X 7 1/4 X 10
I	BOTTOM	1	3/4 X 5 1/2 X 5 1/2

REQUIRED TOOLS:

1. MITER SAW
2. BAND SAW
3. OSC. ORBITAL SANDER
4. SCROLL SAW

JOINERY:

1. NAIL GUN
2. ATTACH RISER WITH SCREWS BEFORE ATTACHING SIDE RAILS
3. MITER CUT ALL CORNERS

Name:

Class:

Date:

Wishing Well

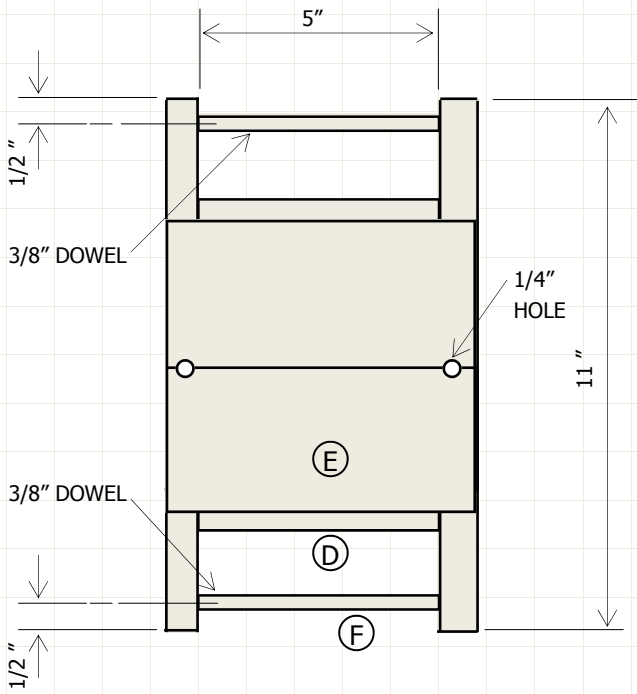
Scale 1/4" = 1"

Difficulty Level

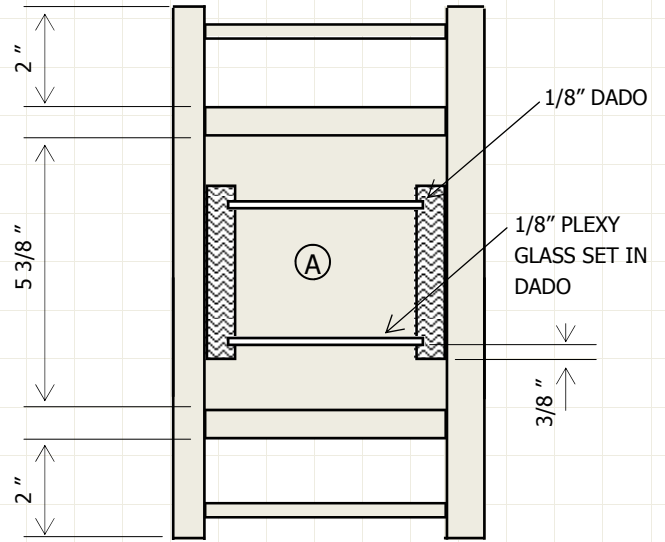
2

NOTES:

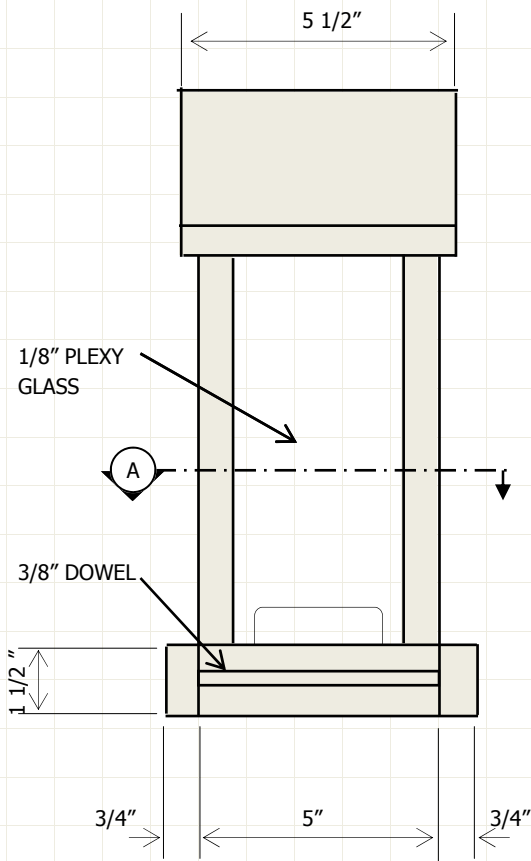
1. ALL JOINTS TO BE JOINED WITH A NAIL GUN USING 1 1/4" NAILS.
2. DO NOT ATTACH TOP TO FRAME. TOP HANGS FROM ROPE



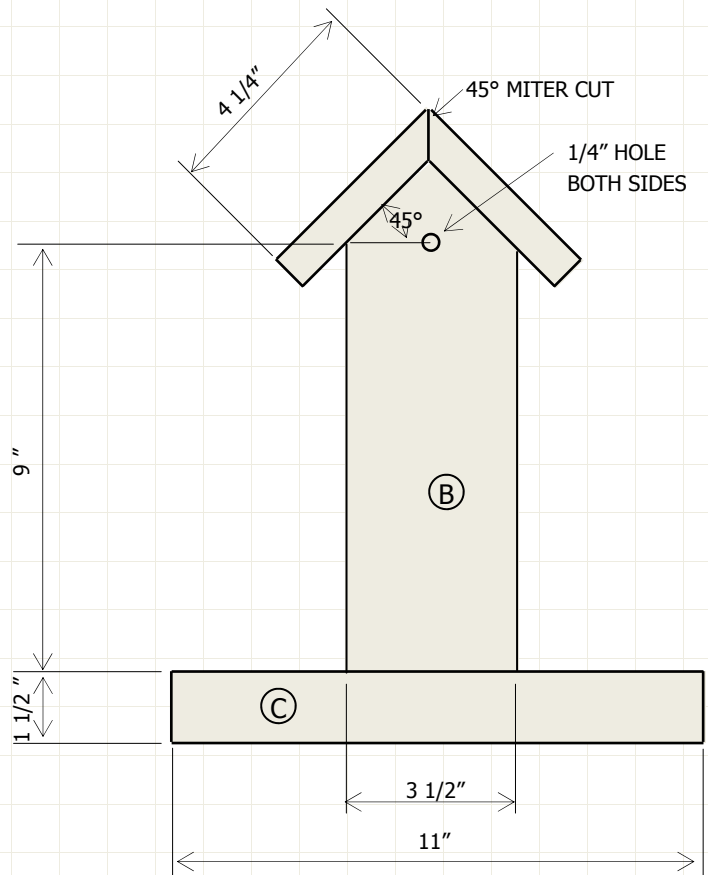
TOP VIEW



SECTION A



FRONT VIEW



RIGHT SIDE VIEW

Name:

Class:

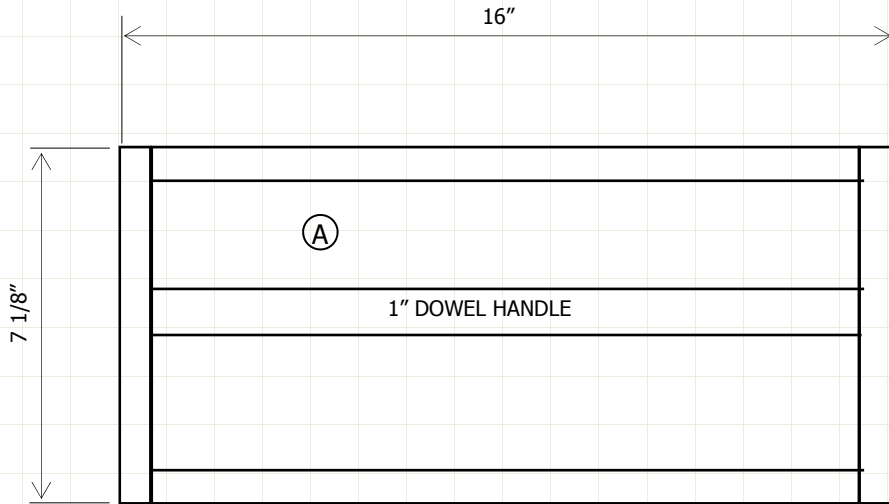
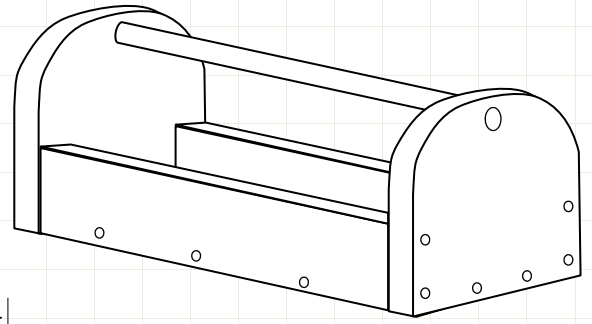
Date:

Bird Feeder

Scale 1/4" = 1"

Difficulty Level

2



TOP VIEW

LIST OF MATERIALS:

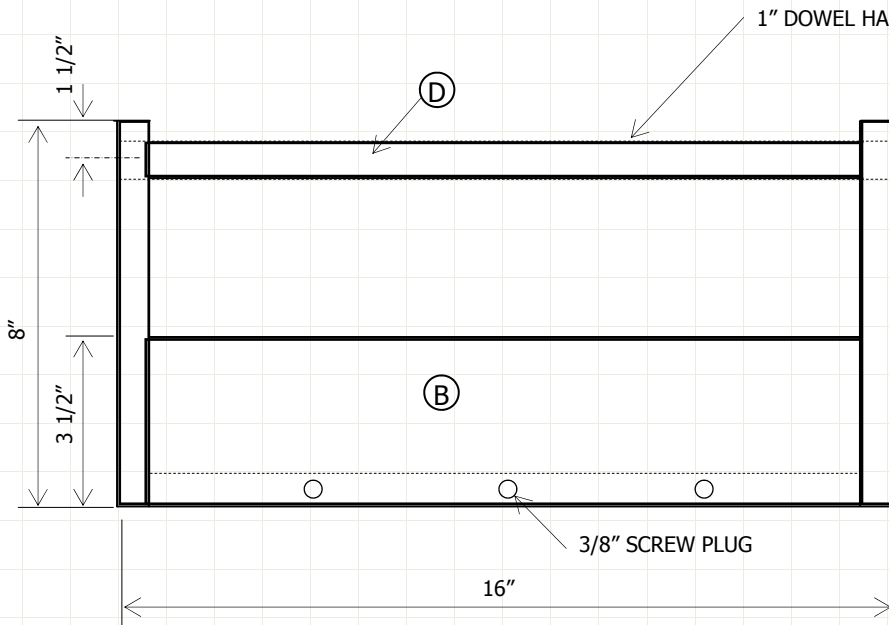
1. 1X6 DOUGLAS FIR
2. 1X8 DOUGLAS FIR
3. 1X4 DOUGLAS FIR
4. 1" DOWEL
5. 3/8" WOOD CAPS OR PLUGS

CUTTING SCHEDULE:

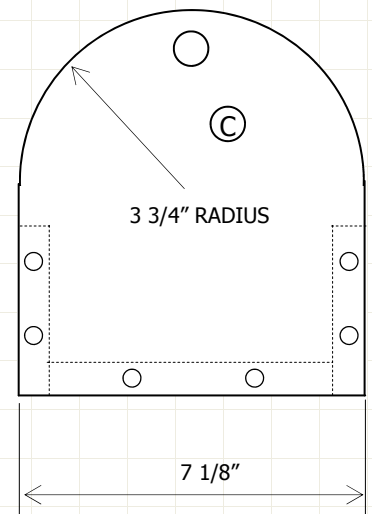
#	NAME	QTY	CUT SIZE
A	BOTTOM	1	3/4 X 5 1/2 X 14 1/2
B	SIDE	2	3/4 X 3 1/2 X 14 1/2
C	END	2	3/4 X 7 1/8 X 2 1/2
D	HANDLE	1	1" DOWEL X 16

NOTES:

1. ALL JOINTS TO HAVE SCREW FASTENERS
2. COUNTER SINK AND PLUG SCREW HOLES



FRONT VIEW



RIGHT SIDE VIEW

Name: _____

Date: _____

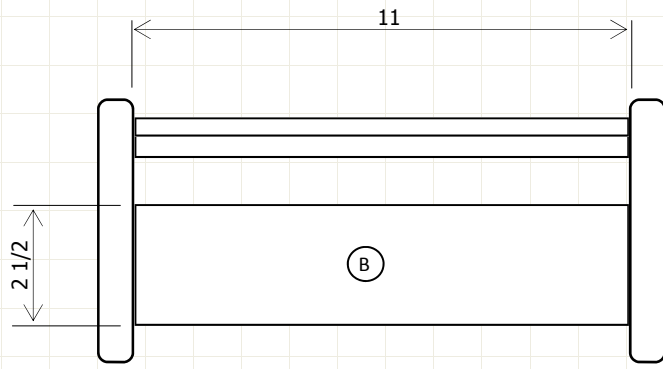
Class: _____

TOOL BOX

Scale 1/4" = 1"

Difficulty Level

2

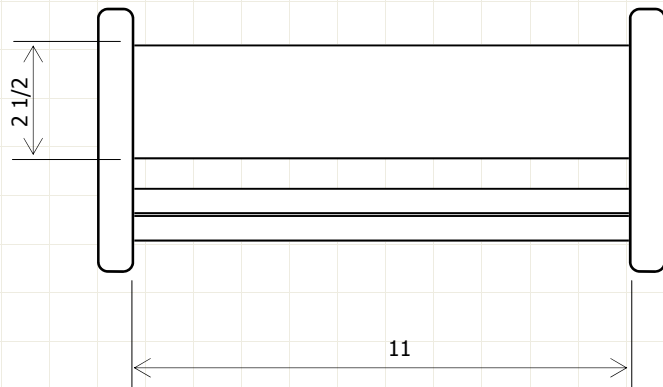


TOP VIEW



LIST OF MATERIALS:

1. 1X3 DOUGLAS FIR (SHELF)
2. 1X6 DOUGLAS FIR (SIDES)



FRONT VIEW

CUTTING SCHEDULE:

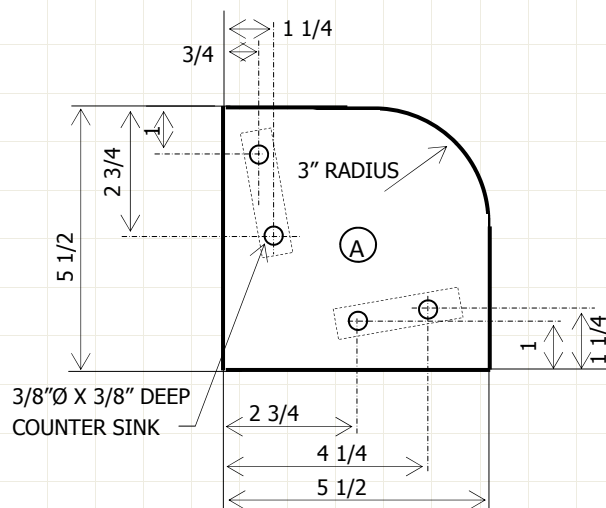
#	NAME	QTY	CUT SIZE
A	SIDE	2	3/4 X 5 1/2 X 5 1/2
B	SHELF	2	3/4 X 2 1/2 X 2 1/2

REQUIRED TOOLS

1. MITER SAW
2. DRILL PRESS
3. SCROLL SAW
4. TABLE SANDER

JOINERY

1. SCREW FASTENERS W/ PLUG OR CAP



RIGHT SIDE VIEW

Name:

Date:

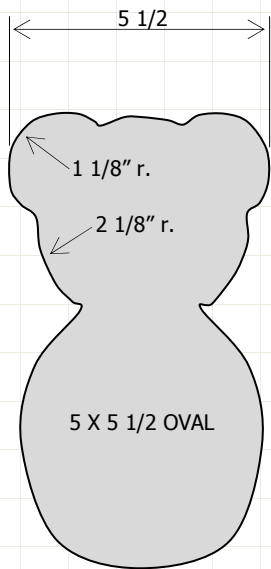
Class:

Book Rack

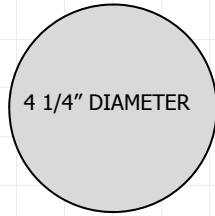
Scale 1/4" = 1"

Difficulty Level

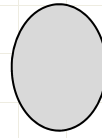
2



BODY

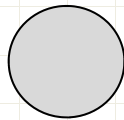


FACE



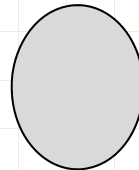
2x2 1/2 OVAL

HANDS



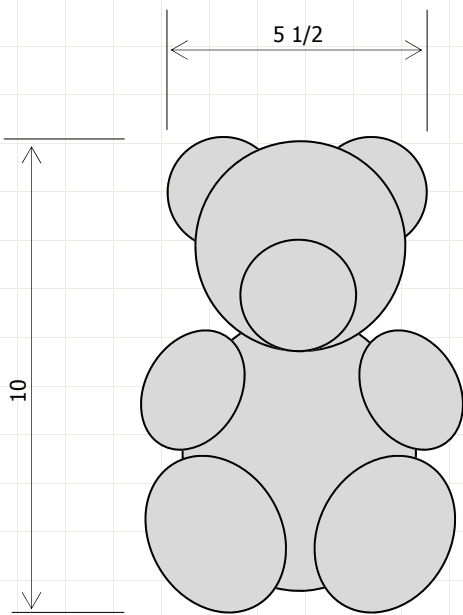
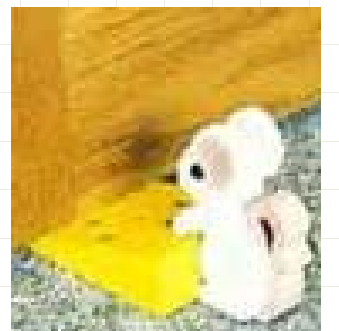
2 1/4" DIAMETER

NOSE

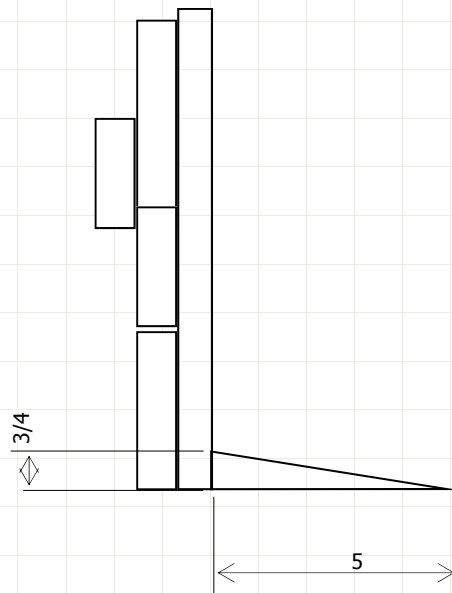


2 3/4 x 3 1/2 OVAL

FEET



FRONT VIEW



SIDE VIEW

Name:

Date:

Class:

BEAR DOOR STOP

Scale 1/4" = 1"

Difficulty Level

2



LIST OF MATERIALS:

1. 1X4 DOUGLAS FIR
2. 1X6 DOUGLAS FIR

CUTTING SCHEDULE:

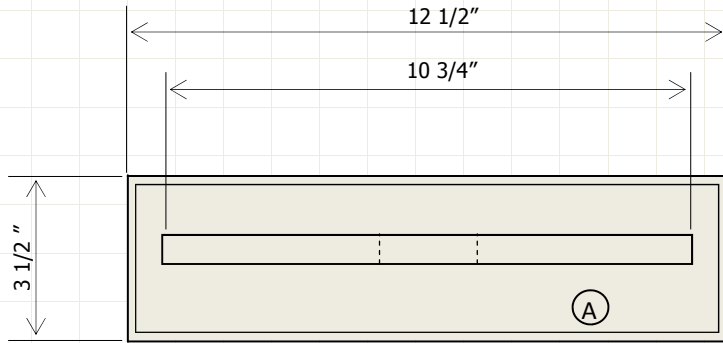
#	NAME	QTY	CUT SIZE
A	BOTTOM	1	3/4 X 3 1/2 X 12 1/2
B	CLOCK	1	3/4 X 5 1/2 X 10 3/4

REQUIRED TOOLS

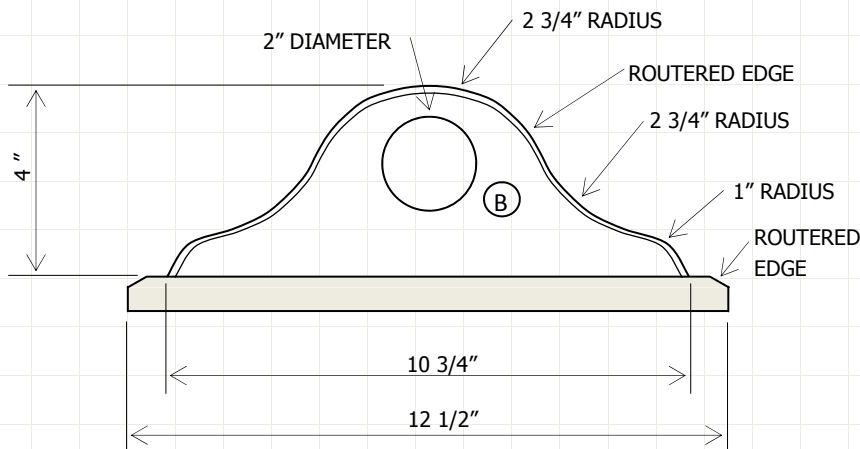
1. MITER SAW
2. DRILL PRESS
3. TABLE SANDERS
4. SCROLL SAW
5. ROUTER

JOINERY

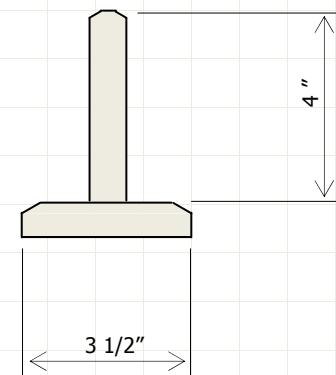
1. SCREW—COUNTER SINK OR
2. GLUE, DOWEL



TOP VIEW



FRONT VIEW



RIGHT SIDE VIEW

Name: _____

Class: _____

Date: _____

MANTLE CLOCK

Scale 1/4" = 1"

Difficulty Level

2



LIST OF MATERIALS:

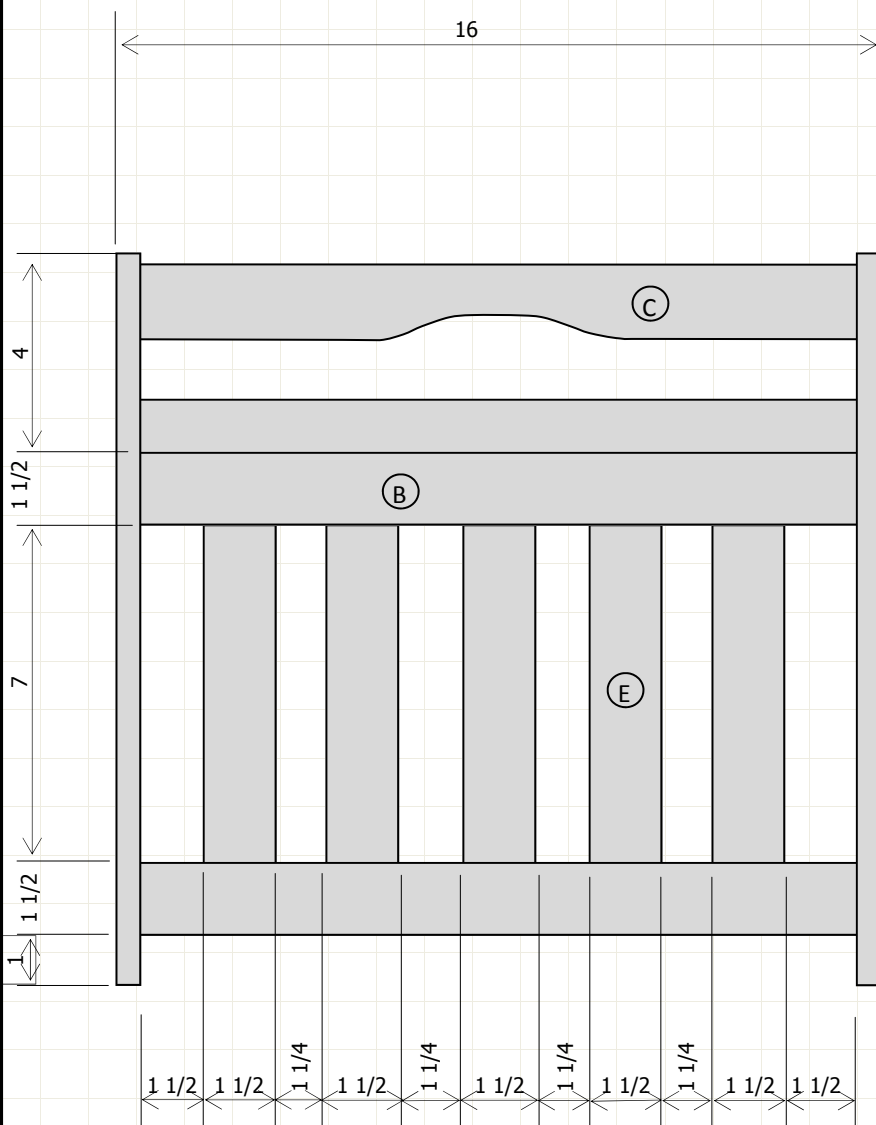
1. 1X12 DOUGLAS FIR
2. 1X10 DOUGLAS FIR
3. 1X12 DOUGLAS FIR
4. 1X8 DOUGLAS FIR

JOINERY

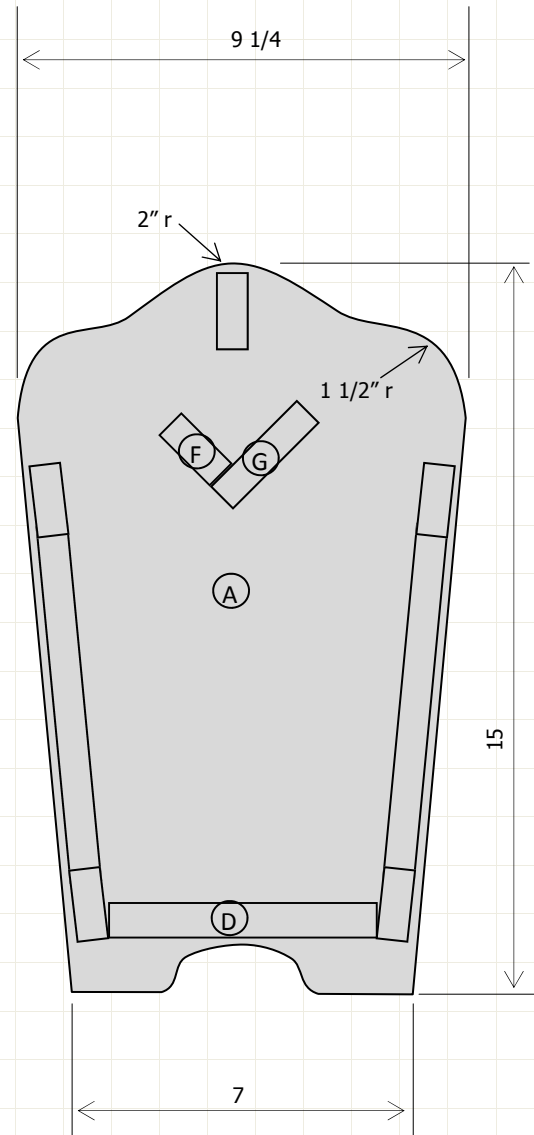
1. SCREW—COUNTER SINK AND PLUG FOR BOTTOM
2. MORTICE AND TENNON FOR RAILS

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	SIDE	2	3/4 X 9 1/4 X 17 1/2
B	RAIL	4	3/4 X 1 1/2 X 14 1/2
C	HANDLE	1	3/4 X 1 1/2 X 14 1/2
D	BOTTOM	1	3/4 X 5 1/2 X 14 1/2
E	STYLES	10	3/4 X 1 1/2 X 7
F	SHELF	1	3/4 X 1 1/2 X 14 1/2
G	SHELF	1	3/4 X 2 1/2 X 14 1/2



FRONT VIEW



SIDE VIEW SECTION

Name:

Class:

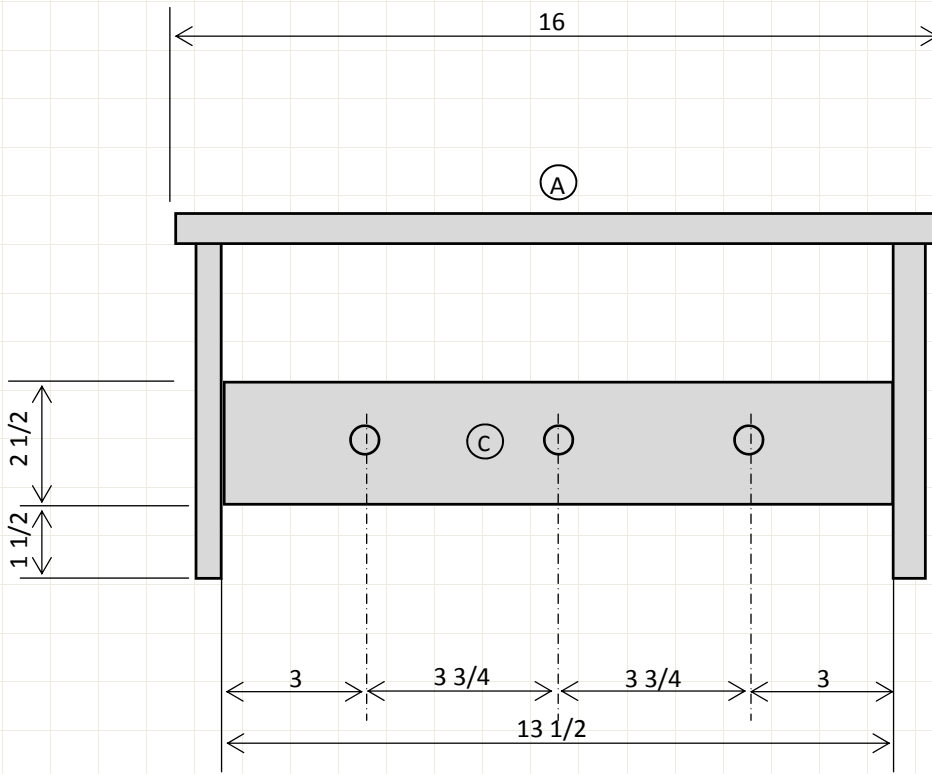
Date:

Magazine Rack

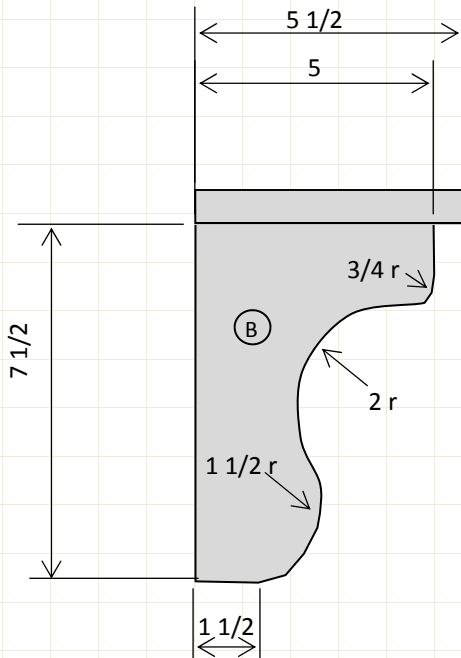
Scale 1/4" = 1"

Difficulty Level

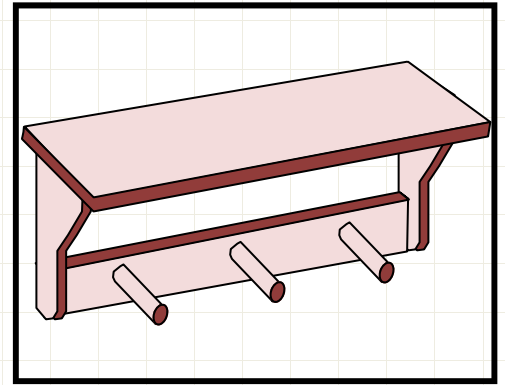
2



TOP VIEW



SIDE VIEW



LIST OF MATERIALS:

1. 1X6 DOUGLAS FIR
2. 1X3 DOUGLAS FIR
3. 1X8 DOUGLAS FIR
4. WOOD SHAKER PEGS

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	TOP	1	3/4 X 5 1/2 X 16
B	SIDE	2	3/4 X 5 1/2 X 7
C	FRONT	1	3/4 X 2 1/2 X 13 1/2
D	PEG	3	
E			
F			

REQUIRED TOOLS

1. MITER SAW
2. DRILL PRESS
3. SCROLL SAW OR BAND SAW
4. OSCILLATING ORBITAL SANDER

JOINERY

1. NAIL GUN

FUN OPTIONS

1. ROUTER THE EDGE OF THE SHELF TOP

Name: _____

Class: _____

Date: _____

SHELF

Scale 1/4" = 1"

Difficulty Level

2



LIST OF MATERIALS:

1. 1X8 DOUGLAS FIR
2. 1X3 DOUGLAS FIR

REQUIRED TOOLS

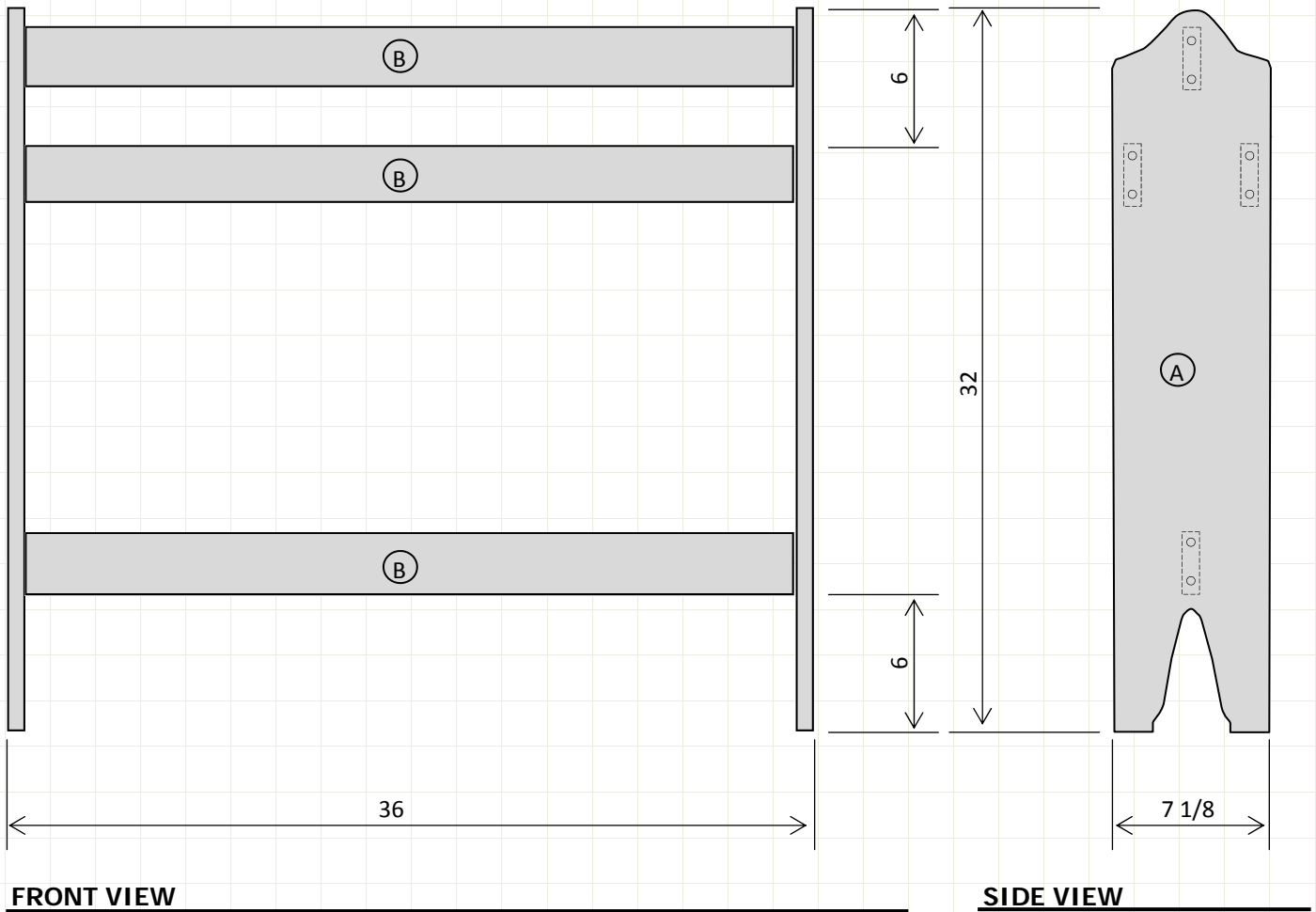
1. MITER SAW
2. SCROLL SAW
3. TABLE SANDERS

JOINERY

1. SCREW—COUNTER SINK AND PLUG

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	LEG	2	3/4 X 7 1/8 X 32
B	RAIL	4	3/4 X 2 1/2 X 34 1/2



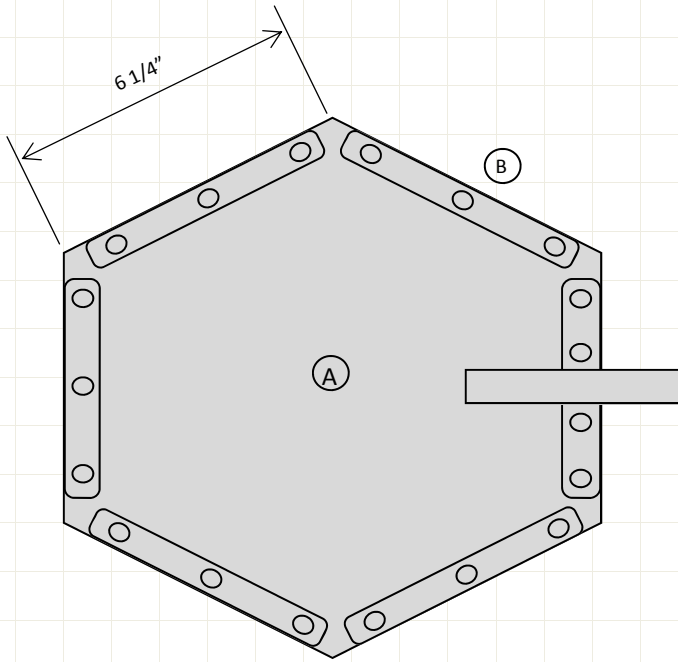
Name: _____
 Class: _____
 Date: _____

QUILT HOLDER

Scale 1/4" = 2"

Difficulty Level

2



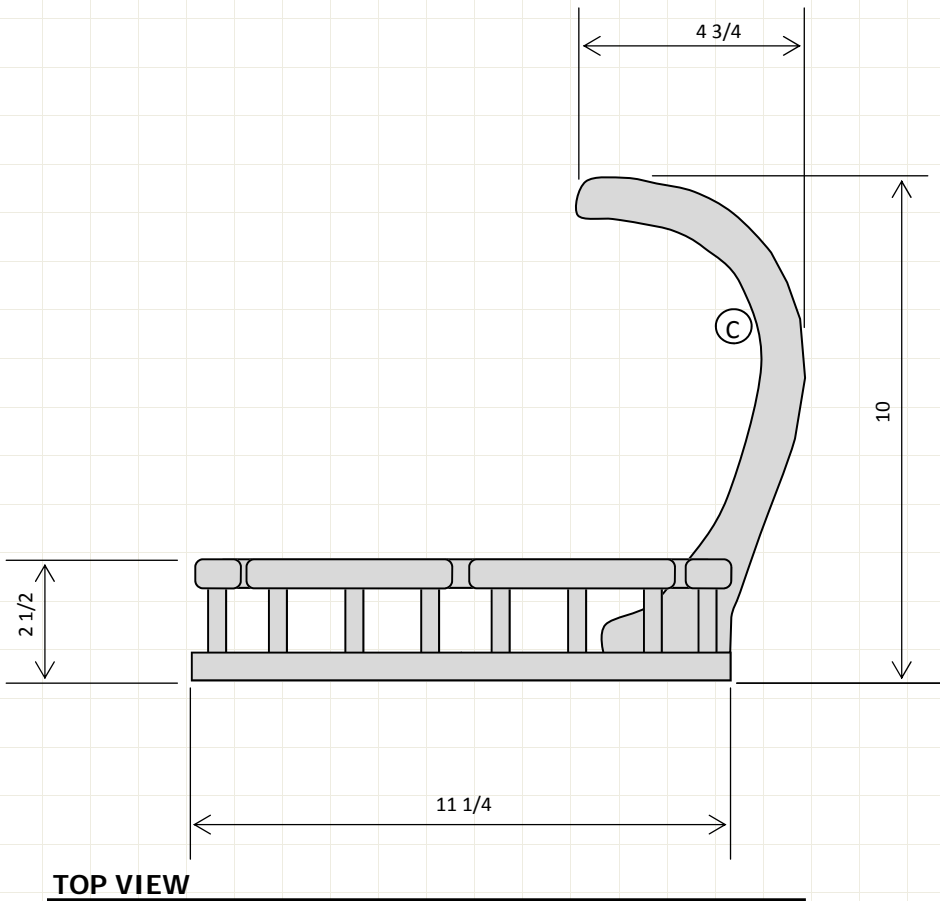
LIST OF MATERIALS:

1. 1X12 DOUGLAS FIR
2. 1X1 DOUGLAS FIR
3. 1x6 DOUGLAS FIR
4. 3/8" Ø DOWEL

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	BOTTOM	1	3/4 X 11 1/4 X 11 1/4
B	TOP RAIL	6	3/4 X 3/4 X 4 3/4
C	HOLDER	1	3/4 X 4 1/2 X 10
D	DOWEL	19	3/8 X 3

TOP VIEW



REQUIRED TOOLS

1. MITER SAW
2. DRILL PRESS
3. TABLE SANDERS
4. SCROLL SAW

JOINERY

1. SCREW—COUNTER SINK
2. GLUE

Name: _____

Class: _____

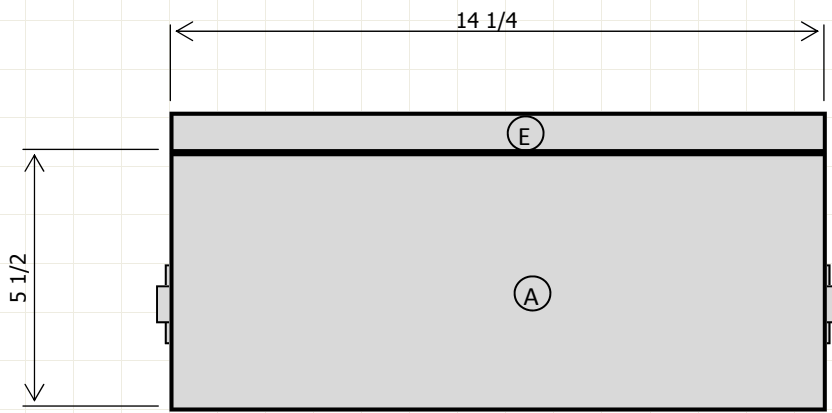
Date: _____

Fruit Basket

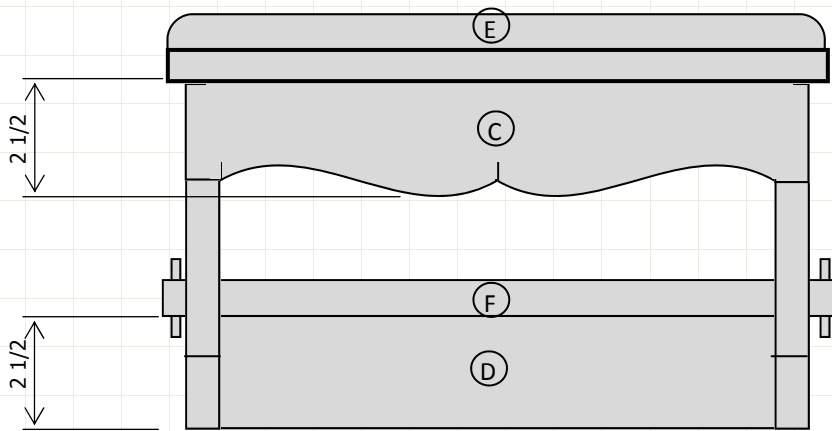
Scale 1/4" = 1"

Difficulty Level

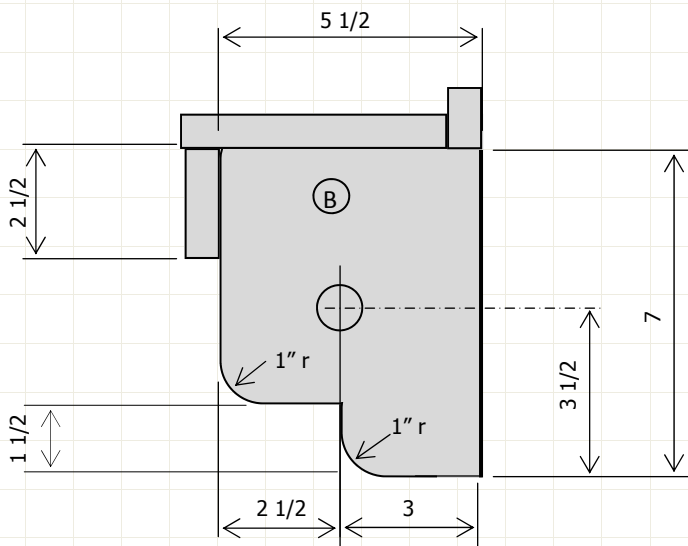
2



TOP VIEW



FRONT VIEW



LIST OF MATERIALS:

1. 1X6 DOUGLAS FIR
2. 1X3 DOUGLAS FIR
3. 1" DOWEL
4. 3/8" DOWEL

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	TOP	1	3/4 X 5 1/2 X 14 1/4
B	SIDE	2	3/4 X 5 1/2 X 7
C	DECO RAIL	1	3/4 X 2 1/2 X 13 3/4
D	BACK	1	3/4 X 2 1/2 X 12 1/4
E	TOP BACK	1	3/4 X 1 1/2 X 13
F	DOWEL	1	3/4 X 7 1/4 X 15 3/4

REQUIRED TOOLS

1. MITER SAW
2. SCROLL OR BAND SAW
3. OSCILLATING ORBITAL SANDER
4. DISC SANDER
5. DRILL PRESS

JOINERY

1. SCREW—COUNTER SINK AND PLUG

FUN OPTIONS

1. WOOD BURN IMAGES

Name:

Class:

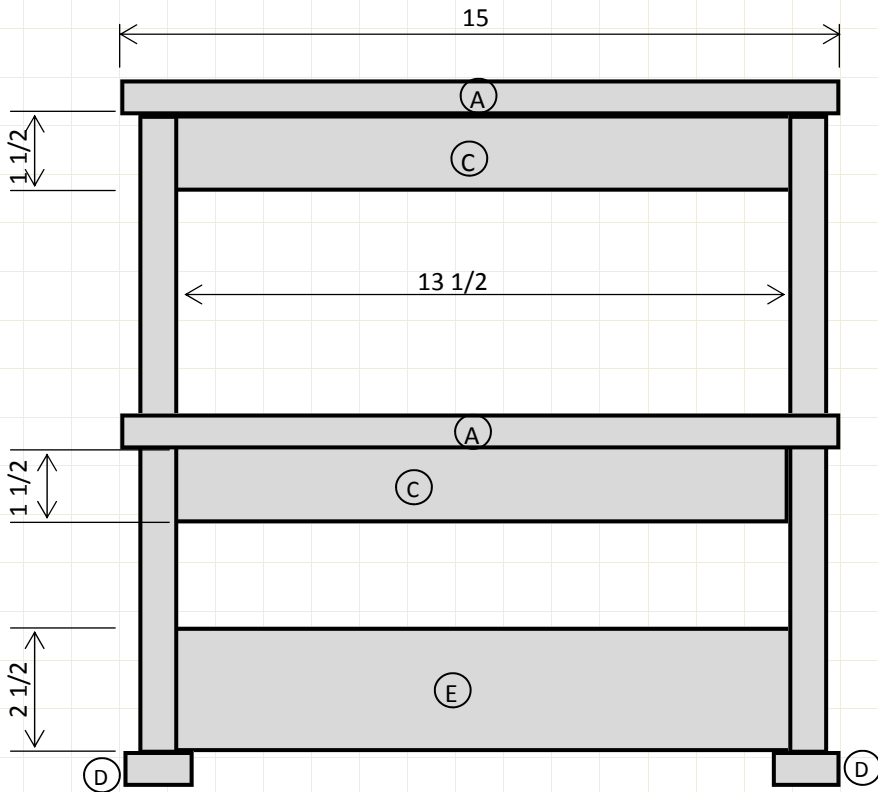
Date:

PAPER TOWEL HOLDER

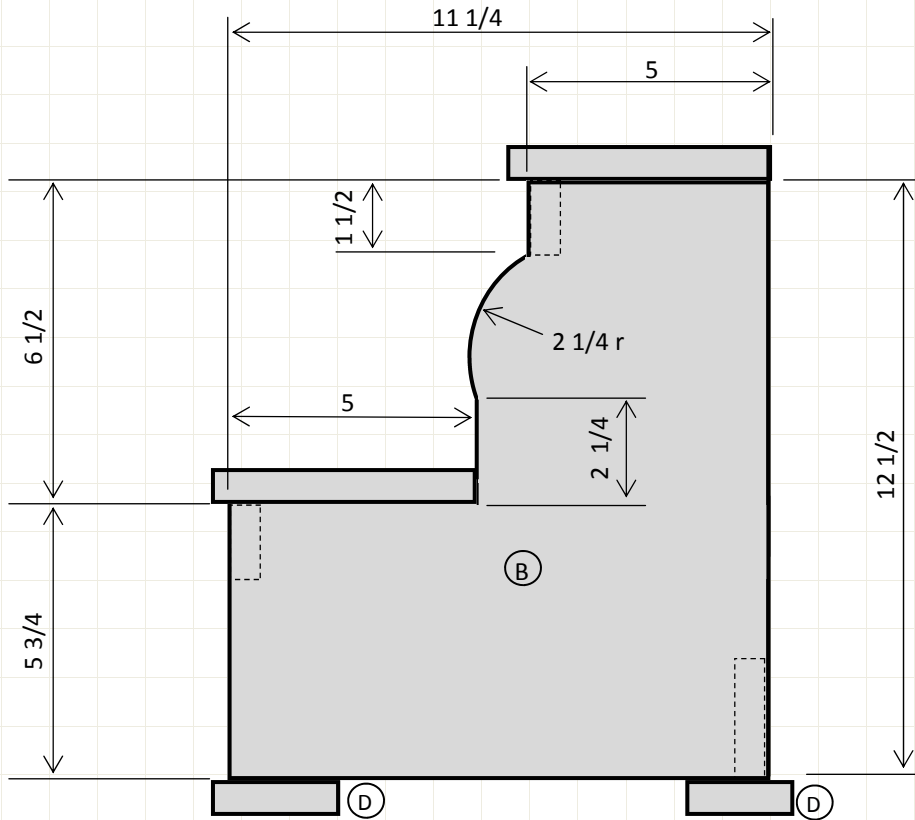
Scale 1/4" = 1"

Difficulty Level

2



FRONT VIEW



SIDE VIEW



LIST OF MATERIALS:

1. 1X6 DOUGLAS FIR
2. 1X3 DOUGLAS FIR
3. 1X2 DOUGLAS FIR

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	STEP	2	3/4 X 5 1/2 X 15
B	SIDE	2	3/4 X 12 1/2 X 11 1/4
C	RAIL	2	3/4 X 1 1/2 X 13 13 1/2
D	FEET	4	3/4 X 1 1/2 X 3
E	BACK RAIL	1	3/4 X 2 1/2 X 13 1/2
F			

REQUIRED TOOLS

1. MITER SAW
2. SCROLL SAW
- 3.

JOINERY

1. NAIL GUN

Name:

Class:

Date:

STEP STOOL

Scale 1/4" = 1"

Difficulty Level

2



LIST OF MATERIALS:

1. 1X8 DOUGLAS FIR
2. 1X4 DOUGLAS FIR
3. 1X3 DOUGLAS FIR
4. SHAKER PEGS

REQUIRED TOOLS

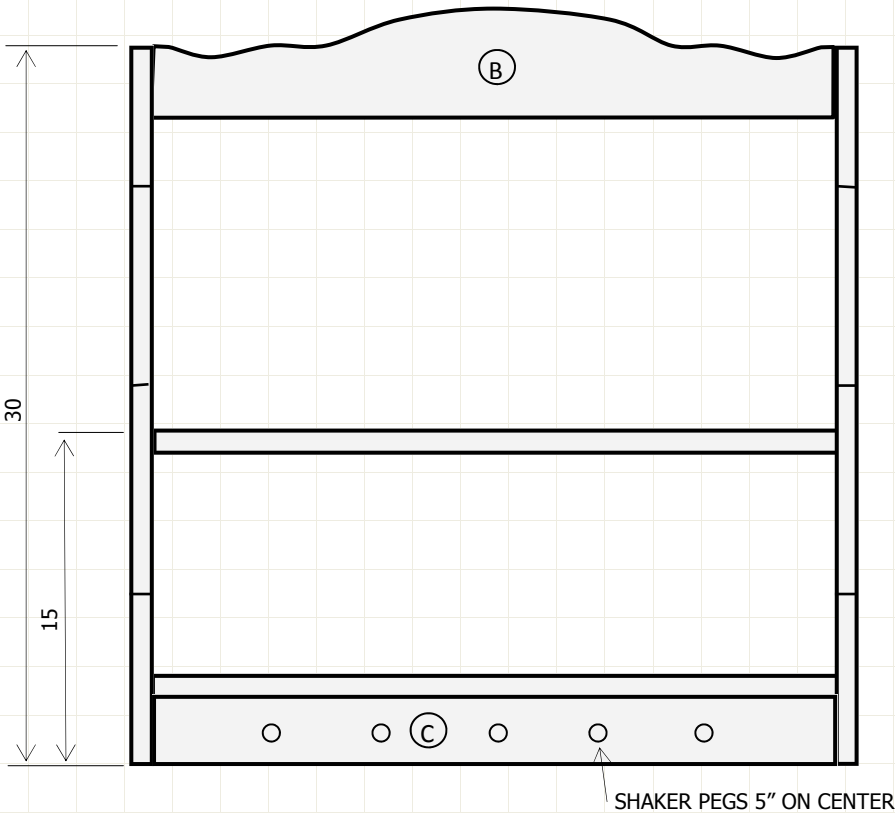
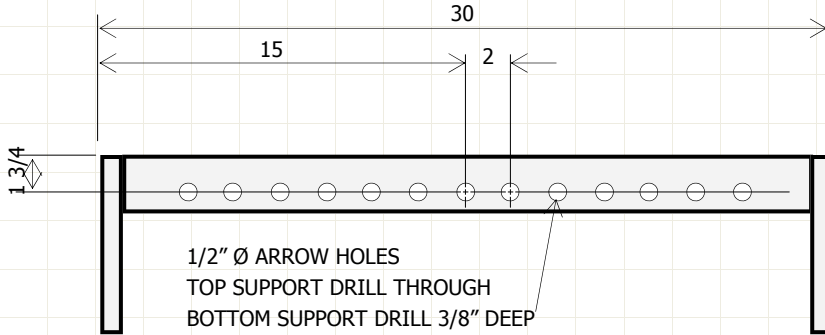
1. MITER SAW
2. DRILL PRESS
3. PLANER

JOINERY

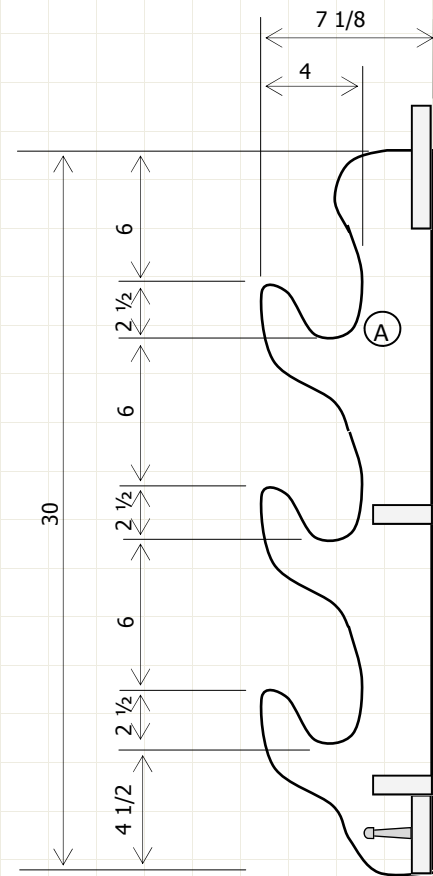
1. SCREW—COUNTERSINK

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	SIDES	2	3/4 X 7 1/8 X 30
B	TOP	1	3/4 X 5 1/2 X 28 1/2
C	BOTTOM	1	3/4 X 3 1/2 X 28 1/2
D	ARROW	2	3/4 X 2 1/2 X 28 1/2



FRONT VIEW



SECTION

Name:

Class:

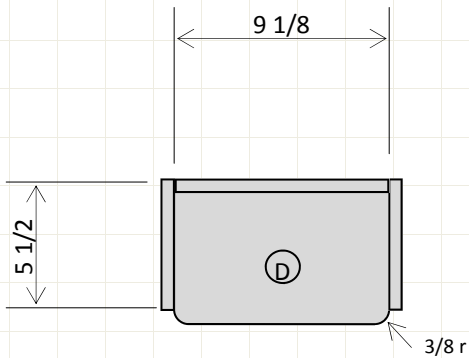
Date:

BOW AND ARROW RACK

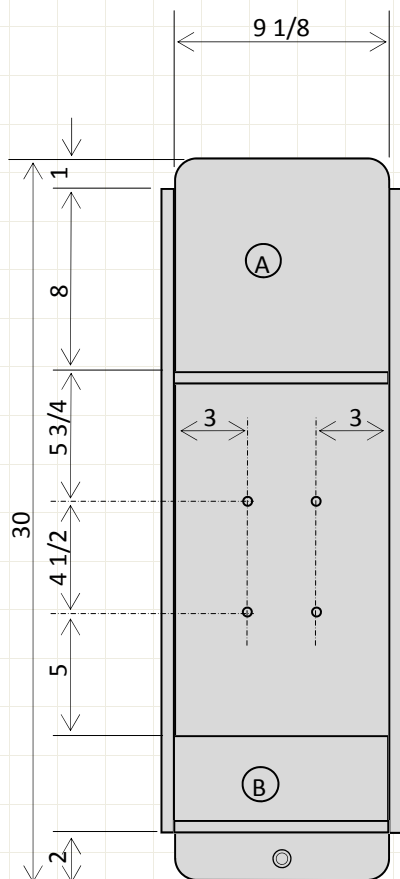
Scale 1/4" = 2"

Difficulty Level

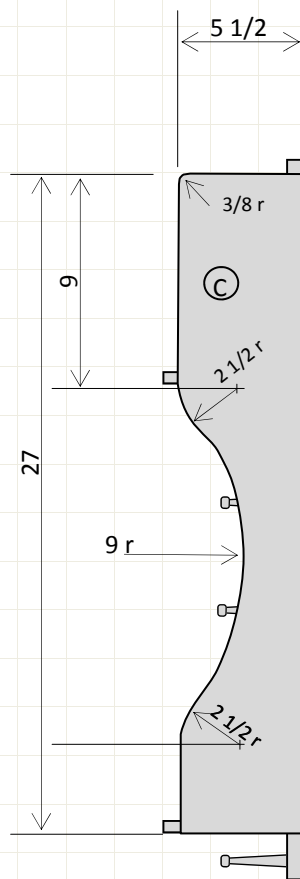
2



TOP VIEW



FRONT VIEW



SIDE VIEW



LIST OF MATERIALS:

1. 1X10 DOUGLAS FIR
2. 1X6 DOUGLAS FIR
3. 1X4 DOUGLAS FIR
4. SHAKER PEGS

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	BACK	1	3/4 X 9 1/8 X 30
B	FRONT	1	3/4 X 3 1/2 X 9 1/8
C	SIDE	2	3/4 X 5 1/2 X 27
D	BOTTOM	2	3/4 X 5 1/2 X 9 1/8

REQUIRED TOOLS:

1. MITER SAW
2. DRILL PRESS
3. ROUTER

JOINERY:

1. NAIL GUN OR SCREW W/ COUNTER SINK

Name:

Class:

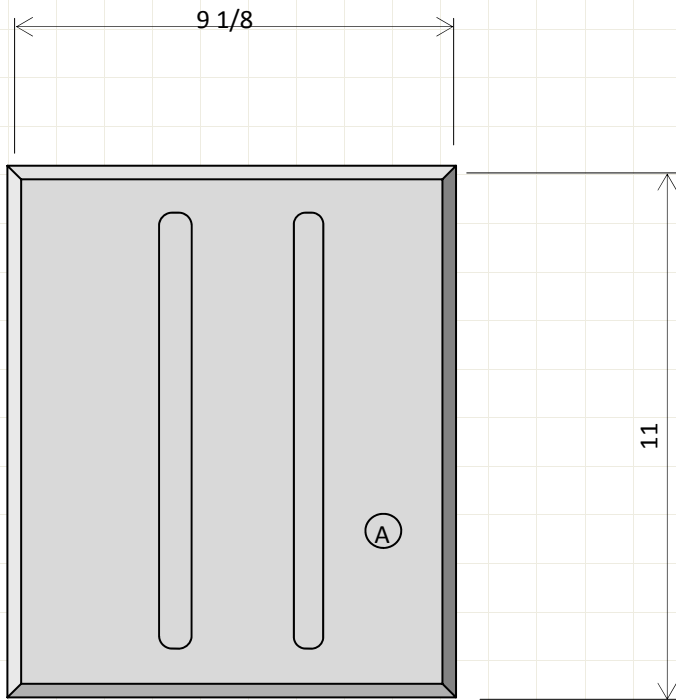
Date:

GAME CONTROLLER RACK

Scale 1/4" = 1"

Difficulty Level

2



TOP VIEW



LIST OF MATERIALS:

1. 1X10 DOUGLAS FIR

CUTTING SCHEDULE:

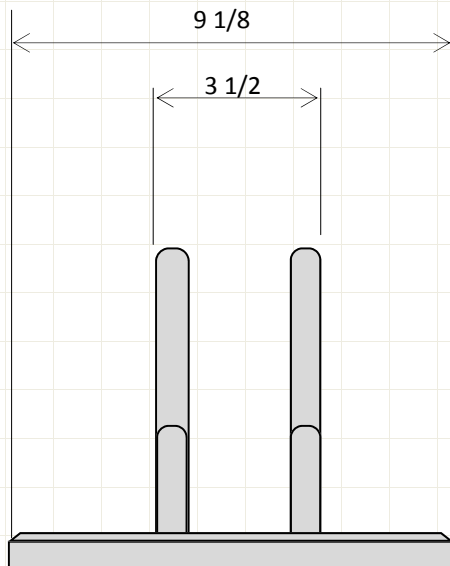
#	NAME	QTY	CUT SIZE
A	BASE	1	3/4 X 9 1/8 X 11
B	HOLDER	2	3/4 X 9 1/8 X 6

REQUIRED TOOLS:

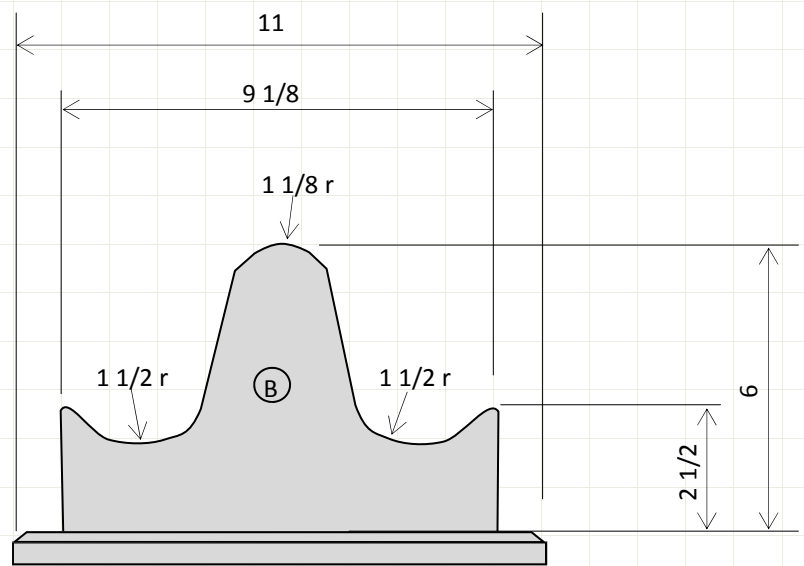
1. MITER SAW
2. DRILL PRESS
3. SCROLL SAW
4. ROUTER

JOINERY:

1. SCREW—COUNTERSINK



FRONT VIEW



SIDE VIEW

Name:

Class:

Date:

GAME CONTROLLER RACK

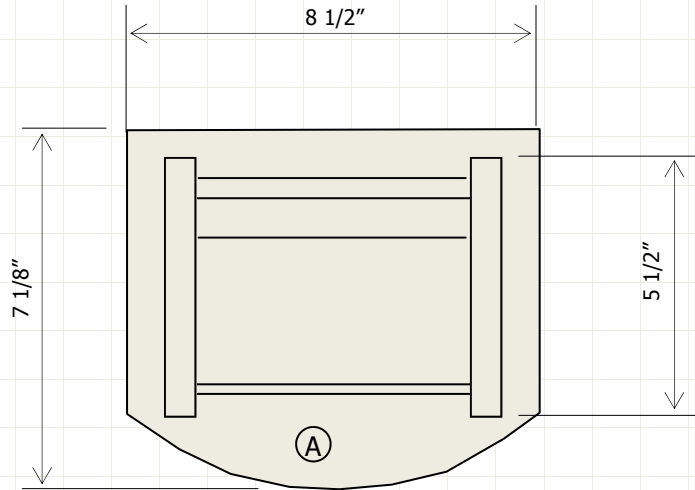
Scale 1/4" = 1"

Difficulty Level

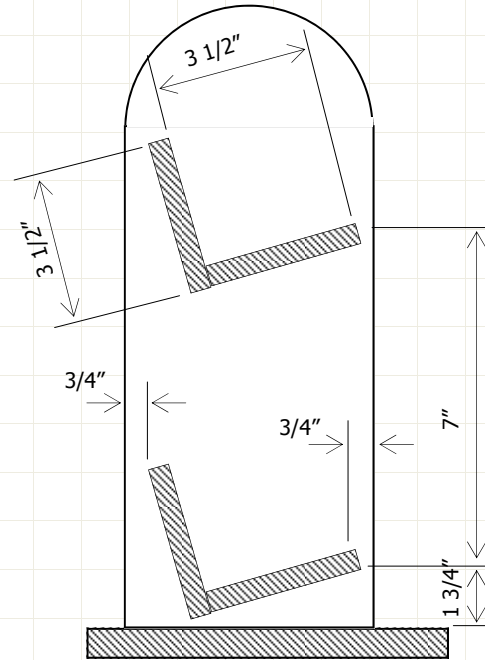
2

NOTES:

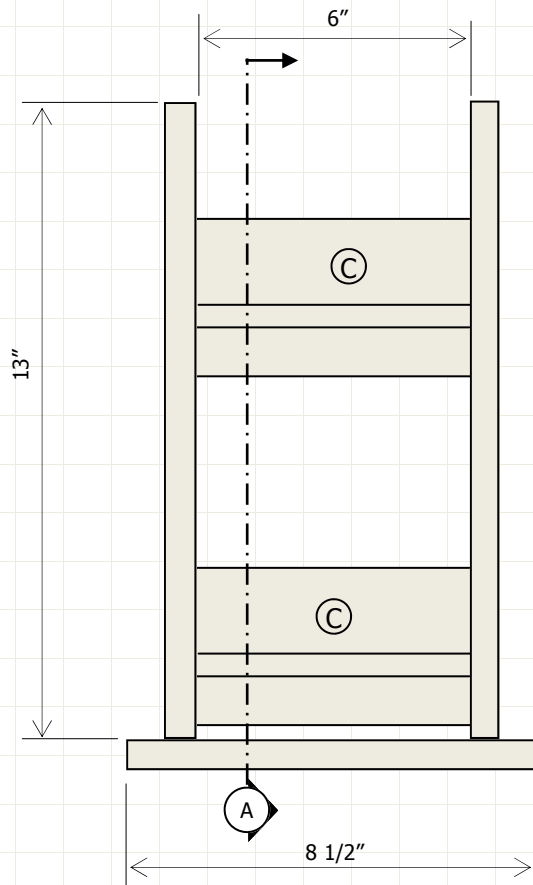
1. ALL JOINTS TO BE SCREW FASTENERS WITH 1/4 COUNTERSINK
2. CAP ALL HOLES



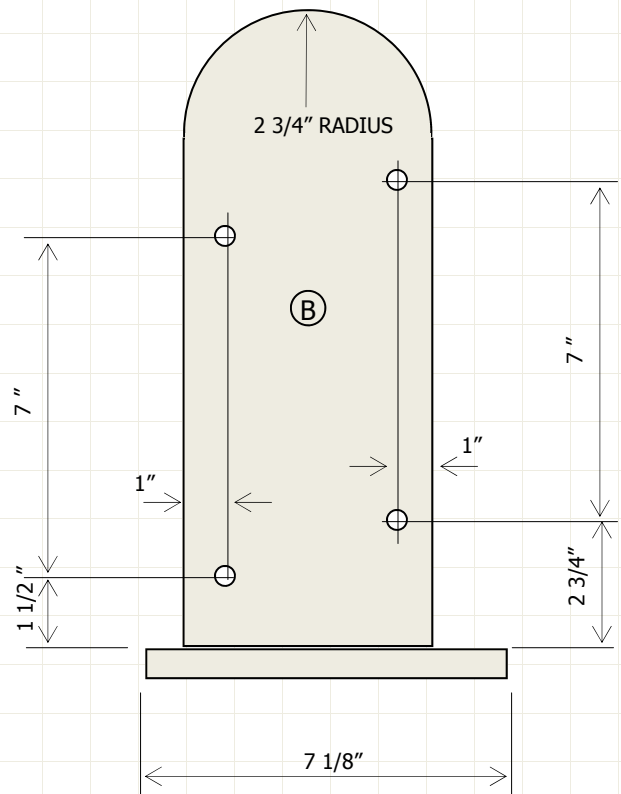
TOP VIEW



SECTION A



FRONT VIEW



RIGHT SIDE VIEW

Name:

Date:

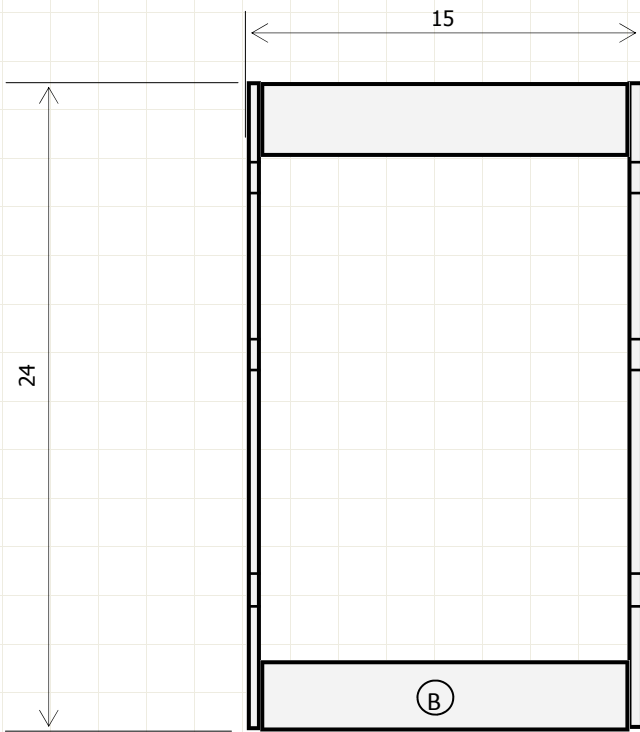
Class:

CD Holder

Scale 1/4" = 1"

Difficulty Level

2



FRONT VIEW



LIST OF MATERIALS:

1. 1X8 DOUGLAS FIR (SIDES)
2. 1X4 DOUGLAS FIR (BACKS)

CUTTING SCHEDULE:

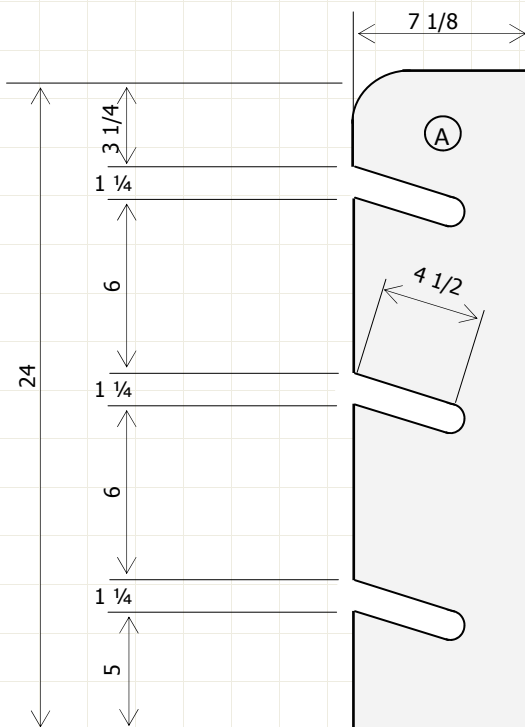
#	NAME	QTY	CUT SIZE
A	SIDES	2	3/4 X 7 1/8 X 24
B	BACKS	2	3/4 X 3 1/2 X 13 1/2

REQUIRED TOOLS

1. MITER SAW
2. DRILL PRESS
3. PLANER

JOINERY

1. SCREW—COUNTERSINK



SIDE VIEW

Name: _____

Class: _____

Date: _____

SKATEBOARD RACK

Scale 1/4" = 2"

Difficulty Level

2



LIST OF MATERIALS:

1. 1X8 DOUGLAS FIR
2. 1X2 DOUGLAS FIR (GAME PIECES)
3. 1/4 X 3/4 DOUGLAS FIR (DIVIDERS)
4. 1/4 DOWEL (PEGS)

REQUIRED TOOLS

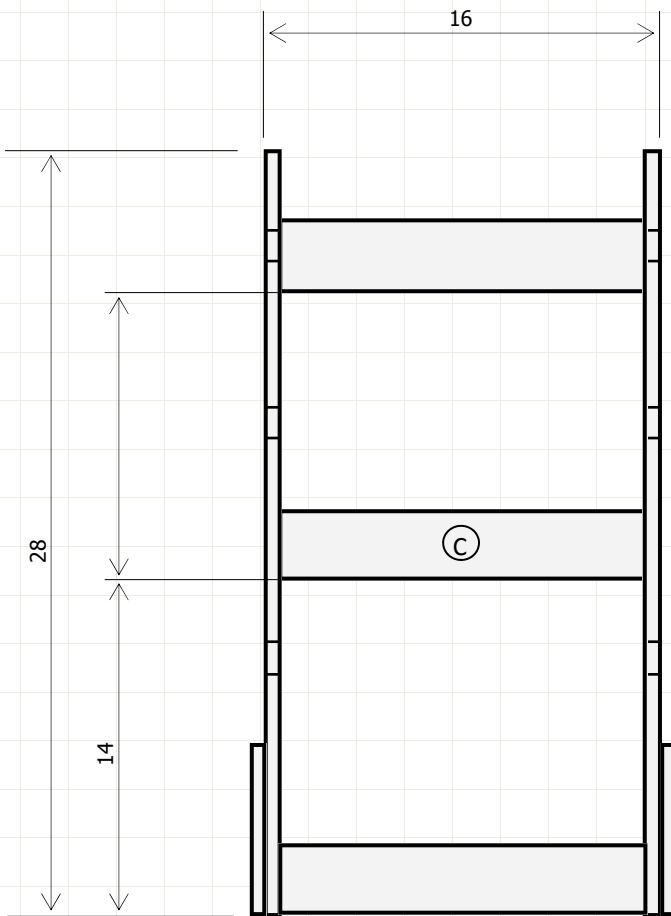
1. MITER SAW
2. DRILL PRESS
3. SLIDING MITER
4. SCROLL SAW
5. SANDER

CUTTING SCHEDULE:

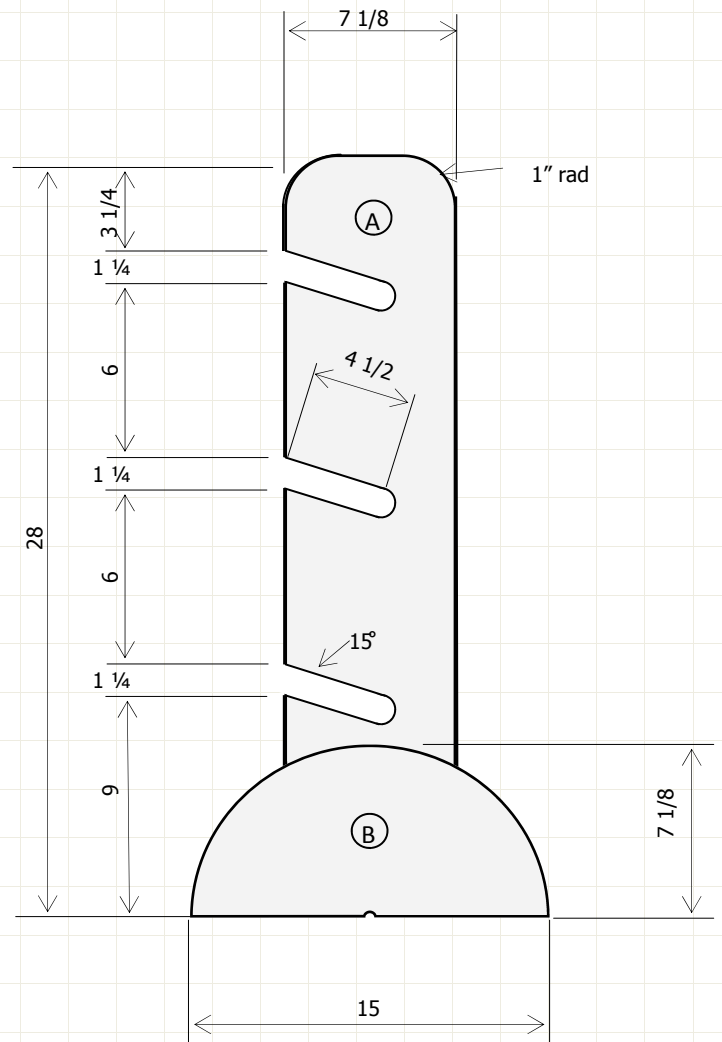
#	NAME	QTY	CUT SIZE
A	SIDE	9	3/4 X 7 1/8 X 28
B	BASE	2	3/4 X 7 1/8 X 15
C	DIVIDER	6	3/4 X 3 1/2 X 14 1/2

JOINERY

1. SCREW—COUNTER SINK AND PLUG



FRONT VIEW



SIDE VIEW

Name:

Class:

Date:

SKATEBOARD RACK

Scale 1/4" = 2"

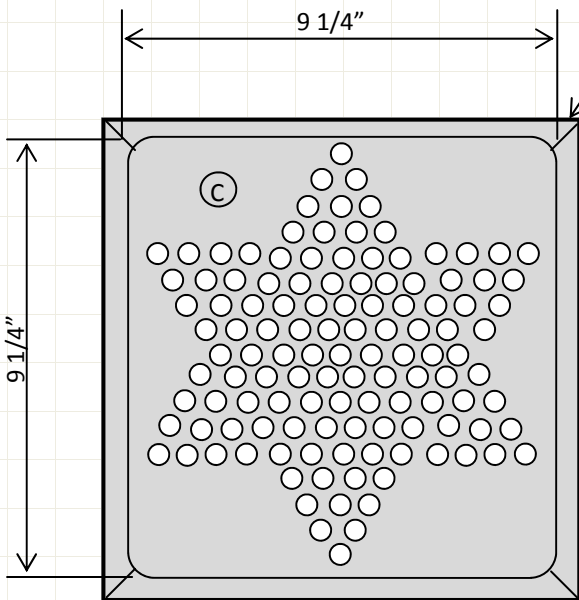
Difficulty Level

2

Profecient Projects



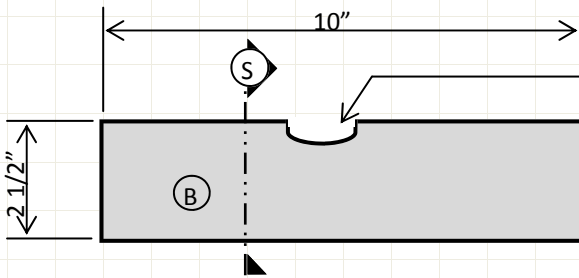
the
Proficient
Woodworker



MITER JOINT ALL FOUR CORNERS

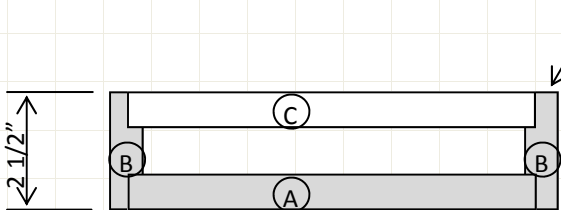
USE TEMPLATE PROVIDED ON BACK FOR HOLE LOCATION

TOP VIEW



USE 1" Ø SANDING CYLINDER FOR FINGER NOTCH

FRONT AND SIDE VIEW



ROUTER RABBET NOTCH ALL FOUR SIDES 3/8" WIDE AND 3/4" DEEP AFTER BOX HAS BEEN ASSEMBLED

SIDE VIEW SECTION



LIST OF MATERIALS:

1. 1X10 DOUGLAS FIR (TOP AND BOTTOM)
2. 1X3 DOUGLAS FIR (SIDES)

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	BOTTOM	1	3/4 X 9 1/4 X 9 1/4
B	SIDE	4	3/4 X 2 1/2 X 10
C	TOP	1	3/4 X 9 1/4 X 9 1/4
D			
E			
F			

REQUIRED TOOLS

1. MITER SAW
2. TABLE SANDER
3. OSCILATING ORBITAL SANDER
4. ROUTER

JOINERY

1. NAIL GUN
2. 45° MITER CUT SIDES

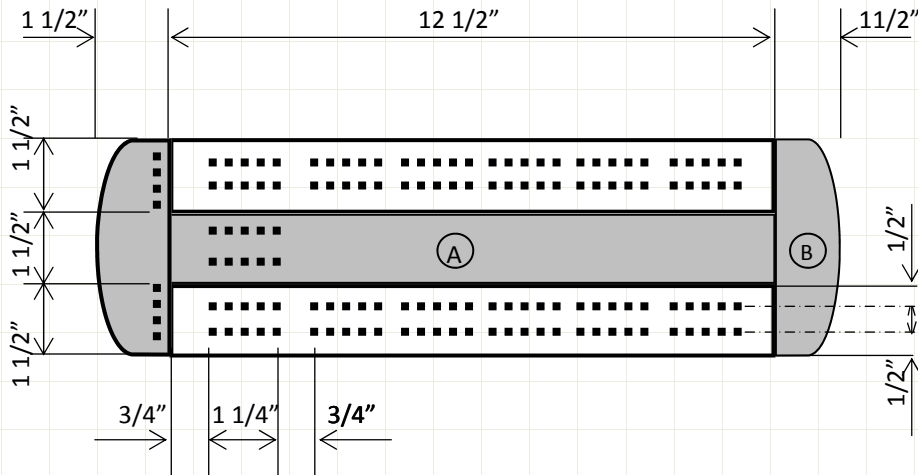
Name: _____
 Class: _____
 Date: _____

Chinese Checkers

Scale 1/4" = 1"

Difficulty Level

3



DRILL $1/8''$ \varnothing HOLES $1/4''$ APART IN GROUPS OF FIVE. SET HOLE DEPTH AT $1/4''$ DEEP. BEGIN ROWS $3/4''$ FROM EDGE AND PLACE EACH GROUP OF FIVE $3/4''$ APART.



LIST OF MATERIALS:

1. 1X2 WOOD OF CHOICE

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	GAME BD.	3	$3/4 \times 1 \ 1/2 \times 12 \ 1/2$
B	END	2	$3/4 \times 1 \ 1/2 \times 4 \ 1/2$
C			
D			
E			
F			

REQUIRED TOOLS

1. MITER SAW
2. DRILL PRESS
3. PLANER
4. JOINTER

JOINERY

1. GLUE—BUTT JOINT

FUN OPTIONS

1. CHOOSE CONTRASTING COLOR WOOD FOR CENTER AND END PIECES
2. WOOD BURN IMAGES IN MIDDLE PIECE
3. WOOD BURN DIVIDER LINES BETWEEN GROUPS OF FIVE HOLES

Name:

Class:

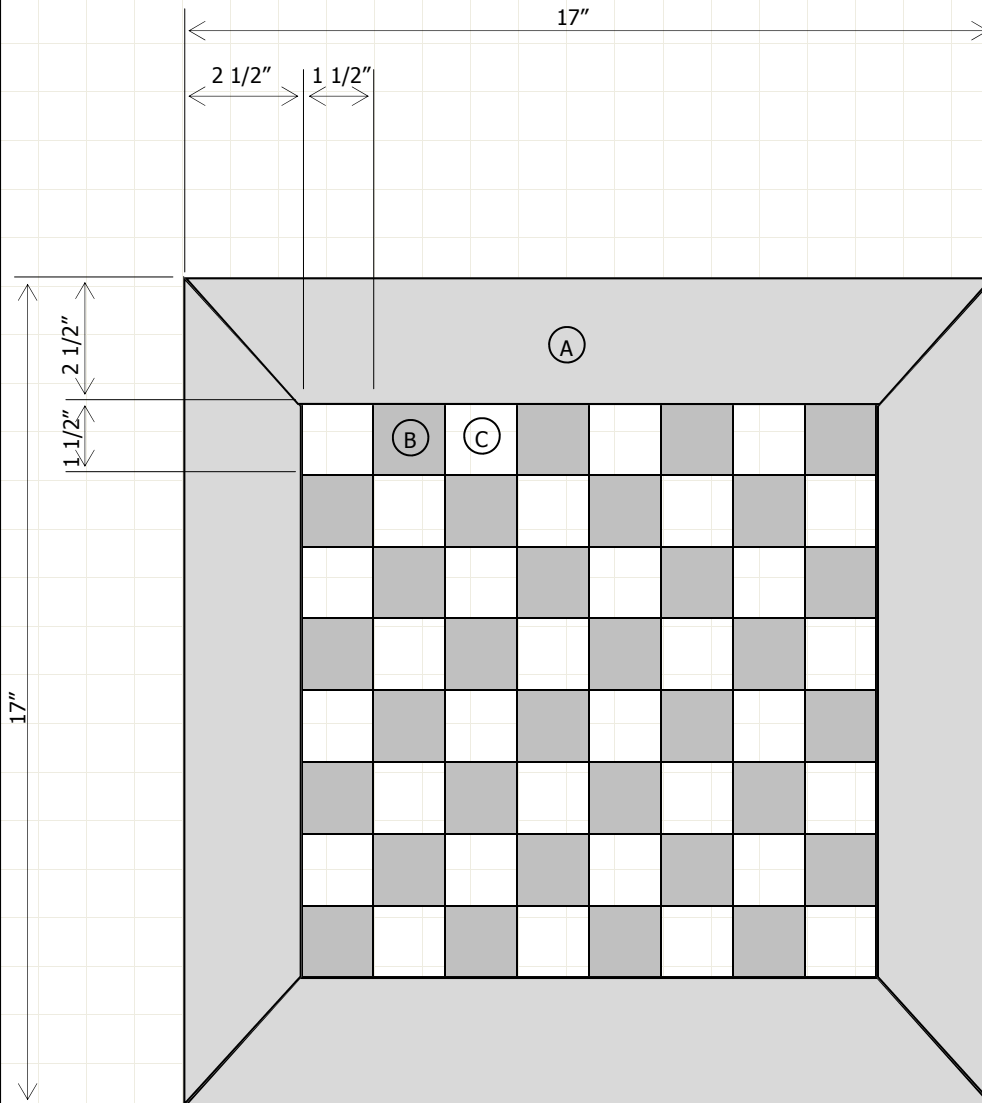
Date:

Cribbage Board

Scale $1/4'' = 1''$

Difficulty Level

3

**LIST OF MATERIALS:**

1. 1X4 STOCK OF YOUR CHOICE
2. 1X6 STOCK OF YOUR CHOICE

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	TOP	4	3/4 X 2 1/2 X 17
B	DARK	4	3/4 X 1 1/2 X 10
C	LIGHT	1	3/4 X 1 1/2 X 10

NOTES:

1. ALL JOINTS TO BE FASTENED WITH GLUE BUTT JOINT

STEPS TO MAKING A CHECKERBOARD

1. CHOOSE TWO DIFFERENT SPECIES OF WOOD, ONE DARK AND ONE LIGHT
2. CUT THE WOOD INTO STRIPS 1 1/2" WIDE BY 10" LONG
3. COVER THE CHECKERBOARD CLAMPING JIG WITH WAX PAPER.
4. POSITION THE STRIPS ON THE JIG ALTERNATING THE COLOR. GLUE THE STRIPS TOGETHER. MAKE SURE YOU GLUE ON BOTH EDGES OF THE STRIPS.
5. ONCE THE GLUE IS DRY, CROSS CUT 1/2" OFF ONE END.
6. PLACE THE NEWLY CUT FLAT END AGAINST THE FENCE ON A TABLE SAW AND CROSS CUT THE REMAINING SECTIONS 1 1/2" WIDE. LAYOUT THE PIECES IN ORDER AS YOU CUT THEM ROTATING EVERY OTHER PIECE TO FORM THE CHECKERBOARD PATTERN
7. GLUE THE PIECES TOGETHER USING THE CHECKERBOARD CLAMPING JIG.
8. PLANE THE SURFACES ON A PLANER AND SAND SMOOTH
9. CUT FRAME PIECES TO FIT USING A 45° MITER JOINT FOR THE CORNERS
10. PLANE EAC FRAME PIECE INDIVIDUALLY TO THE THICKNESS OF THE CHECKERBOARD.
11. GLUE THE FRAME AND THE CHECKERBOARD PIECES TOGETHER IN THE SAME SET UP.

Name:

Class:

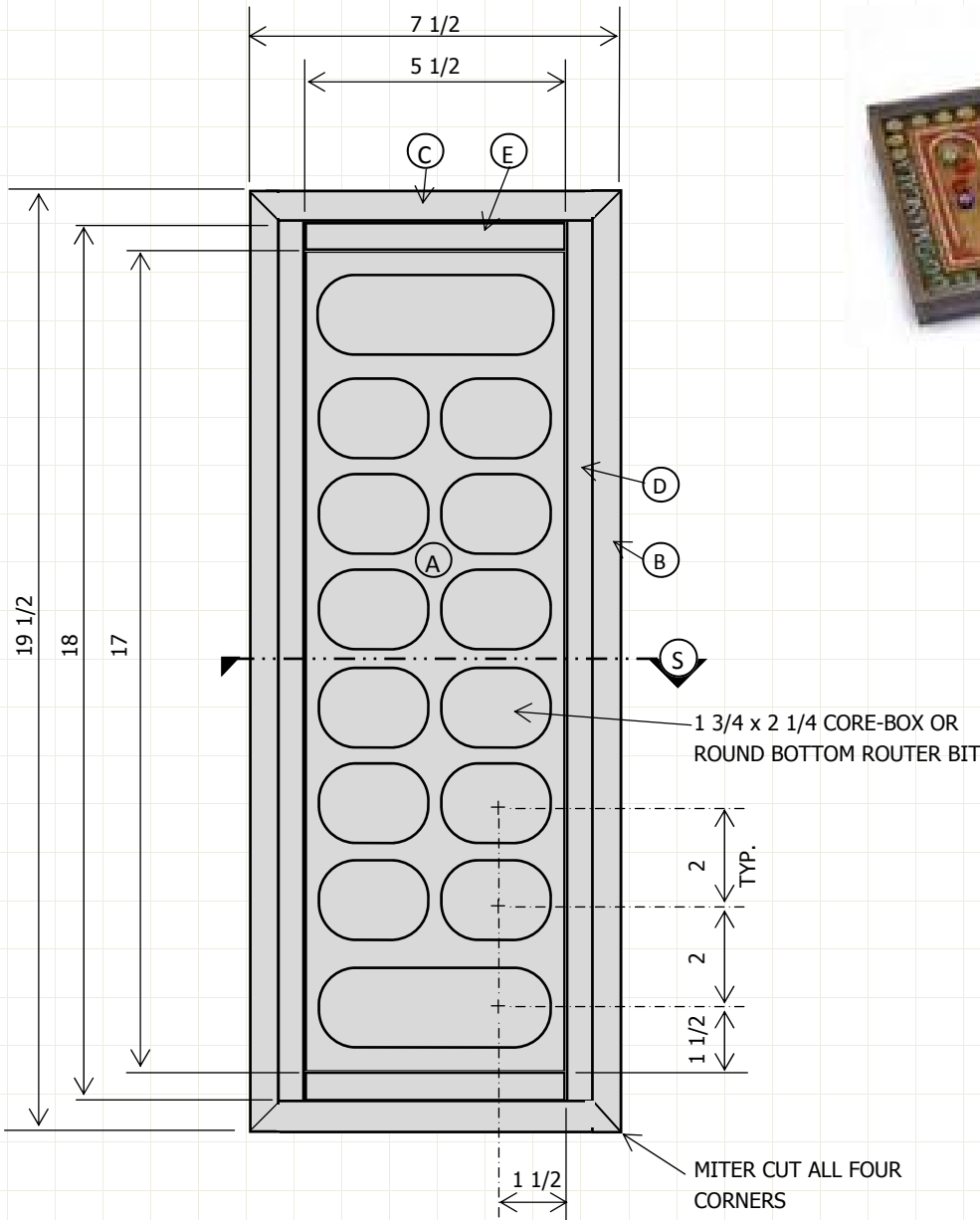
Date:

Checkerboard

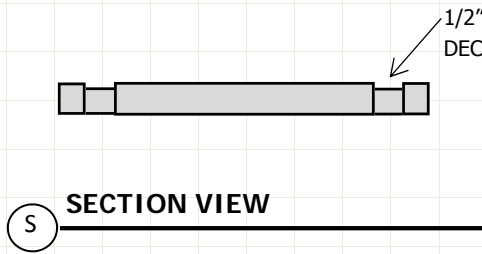
Scale 1/4" = 1"

Difficulty Level

7



TOP VIEW



SECTION VIEW

LIST OF MATERIALS:

1. 1X6 DOUGLAS FIR (GAME BOARD)
2. 1/2 X 1/2 DOUGLAS FIR (TRIM)
3. 3/4 X 3/4 DOUGLAS FIR (SIDES)

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	GAME BD.	1	3/4 X 5 1/2 X 17
B	SIDE	2	3/4 X 3/4 X 8
C	SIDE	2	3/4 X 3/4 X 19 1/2
D	TRIM	2	1/2 X 1/2 X 18
E	TRIM	2	1/2 X 1/2 X 5 1/2
F			

REQUIRED TOOLS

1. MITER SAW
2. TABLE SANDER
3. SCROLL SAW
4. ROUTER

JOINERY

1. NAIL GUN—BUTT JOINT
2. NAIL GUN—MITER JOINT

FUN OPTIONS

1. WOOD BURN SCROLL PATTERNS IN RECESSED TRIM.
2. STAIN RECESSED TRIM DIFFERENT COLOR BEFORE GLUING

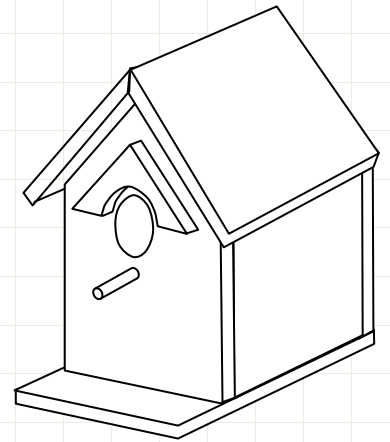
Name: _____
 Class: _____
 Date: _____

Mancala Board

Scale 1/4" = 1"

Difficulty Level

3

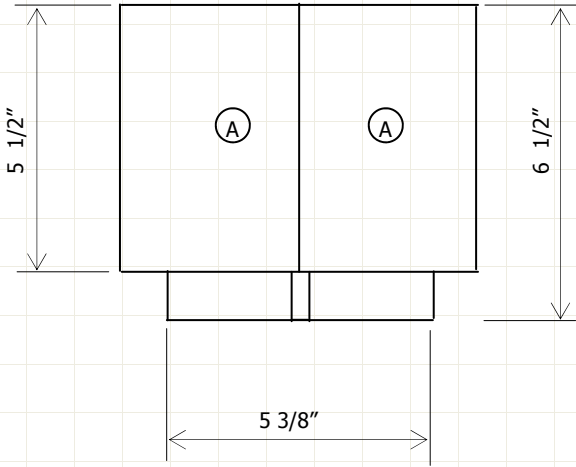


LIST OF MATERIALS:

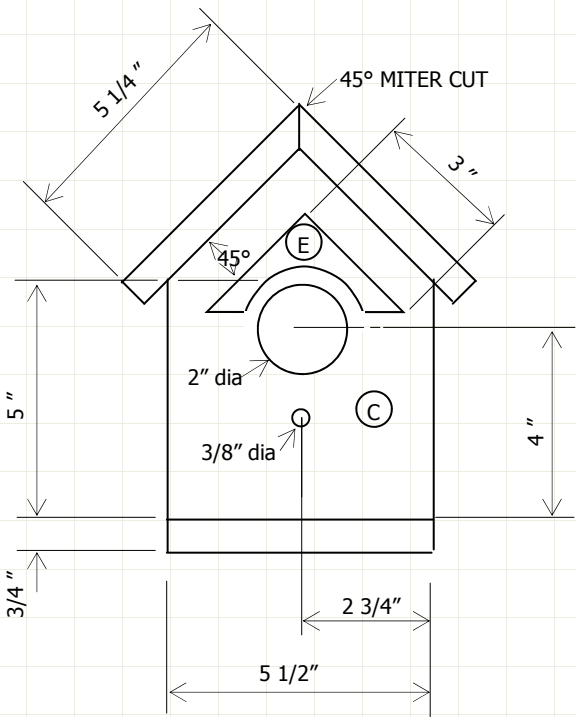
1. 1X6 DOUGLAS FIR
2. 1X4 DOUGLAS FIR
3. 3/8" Ø DOWEL

CUTTING SCHEDULE:

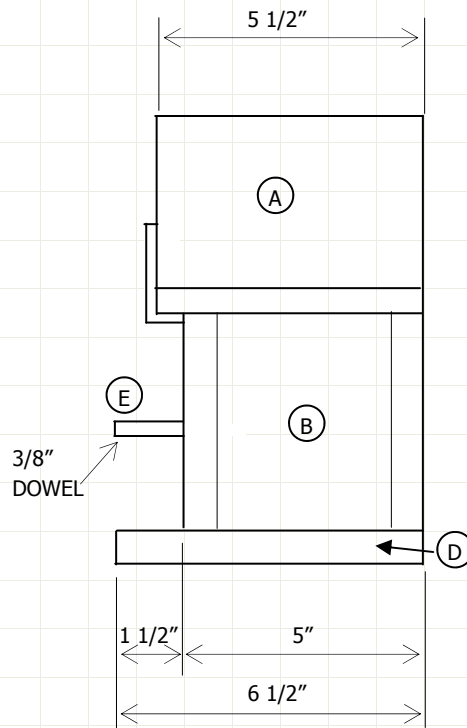
#	NAME	QTY	CUT SIZE
A	ROOF	2	3/4 X 5 1/2 X 5 1/4
B	SIDE	2	3/4 X 3 1/2 X 5
C	FRONT/	2	3/4 X 5 1/2 X 8
D	BOTTOM	1	3/4 X 5 1/2 X 6 1/2
E	PORCH	1	3/4 X 3 X 3
F	PERCH	1	3/8 X 2 DOWEL



TOP VIEW



FRONT VIEW



RIGHT SIDE VIEW

NOTES:

1. ALL JOINTS TO BE JOINED WITH A NAIL GUN USING 1 1/4" NAILS.

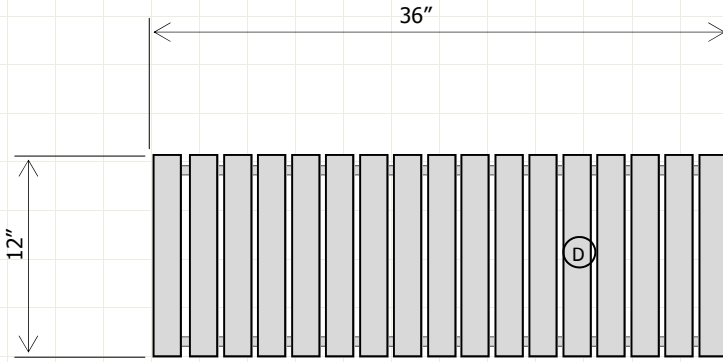
Name: _____
 Class: _____
 Date: _____

Bird House

Scale 1/4" = 1"

Difficulty Level

3



TOP VIEW

LIST OF MATERIALS:

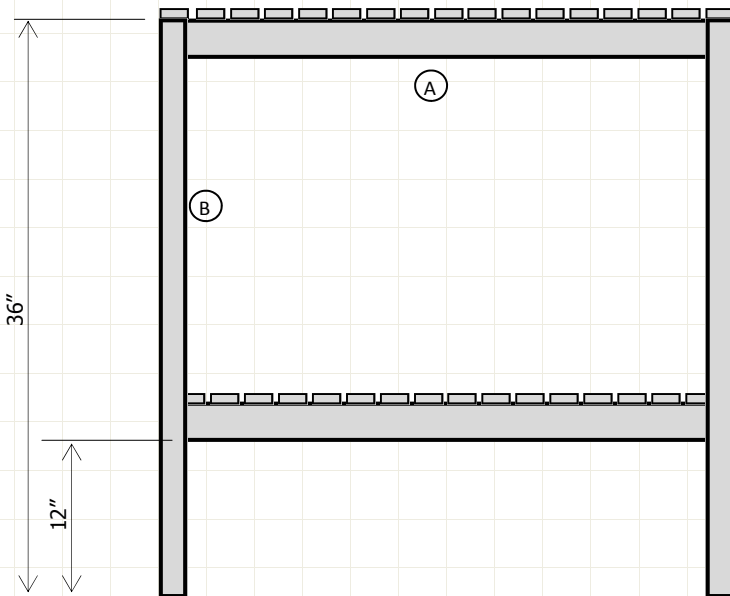
1. 1X3 DOUGLAS FIR
2. 1X2 DOUGLAS FIR
3. 2X2 DOUGLAS FIR

CUTTING SCHEDULE:

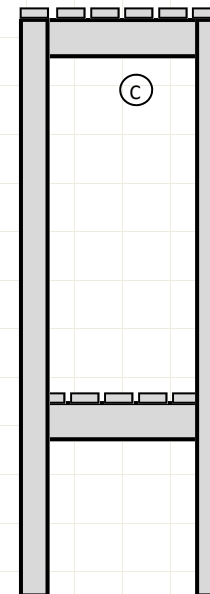
#	NAME	QTY	CUT SIZE
A	F/B RAIL	4	3/4 X 2 1/2 X 33
B	LEG	4	3/4 X 1 1/2 X 36
C	SIDE RAIL	4	3/4 X 2 1/2 X 9
D	SLATS	36	3/4 X 1 1/2 X 12

NOTES

1. NAIL GUN SLATS ONTO FRAME.
2. POCKET SCREW LEGS TO FRAME



FRONT VIEW



SIDE VIEW

Name:

Class:

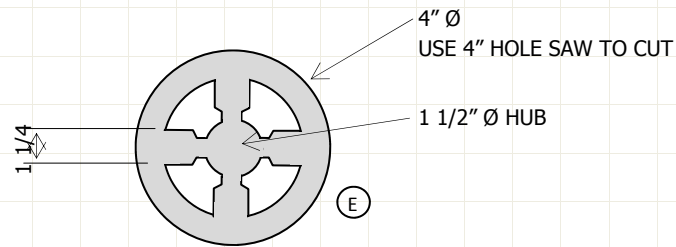
Date:

Garden Planting Table

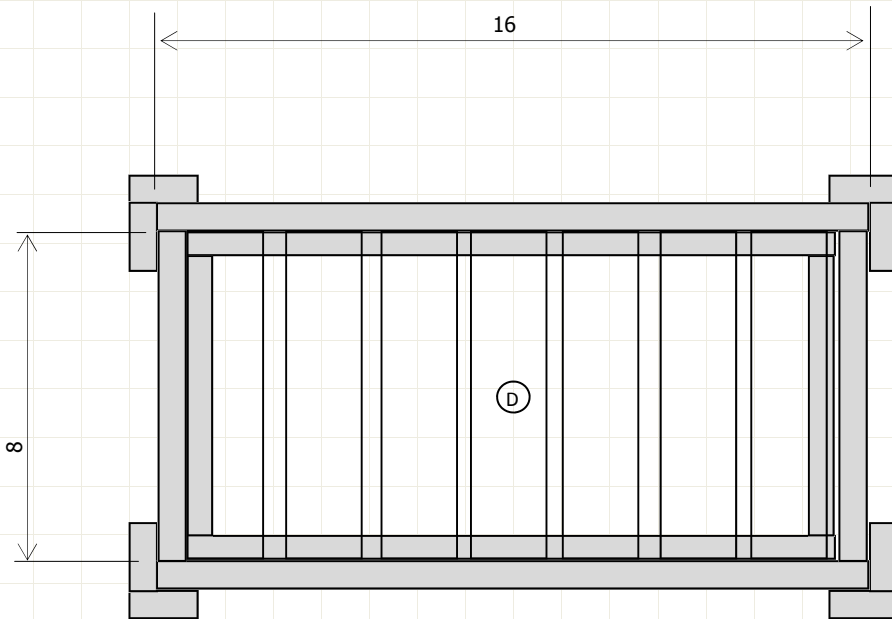
Scale 1/4" = 3"

Difficulty Level

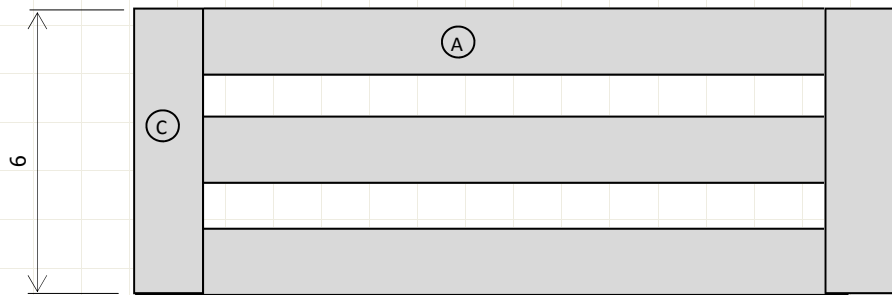
3



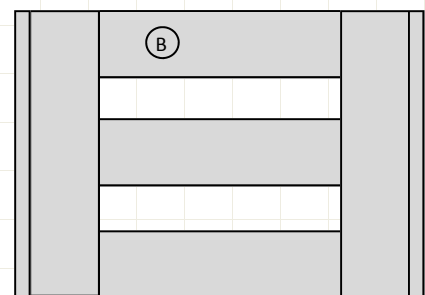
WHEEL PLAN



TOP VIEW



FRONT VIEW



SIDE VIEW

LIST OF MATERIALS:

1. 1X6 DOUGLAS FIR
2. 1X2 DOUGLAS FIR

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	FR. RAIL	6	3/4 X 1 1/2 X 16
B	SD. RAIL	6	3/4 X 1 1/2 X 8
C	CORNER	8	3/4 X 1 1/2 X 6
D	SLATS	7	3/4 X 1 1/2 X 8
E	WHEEL	4	3/4 X 4 Ø

NOTES:

1. NAIL GUN ALL JOINTS
2. LAG SCREW WHEEL TO SIDE PANEL

Name: _____

Class: _____

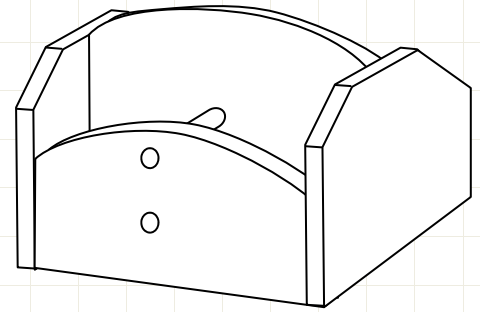
Date: _____

Wagon Plant Holder

Scale 1/4" = 1"

Difficulty Level

3



LIST OF MATERIALS:

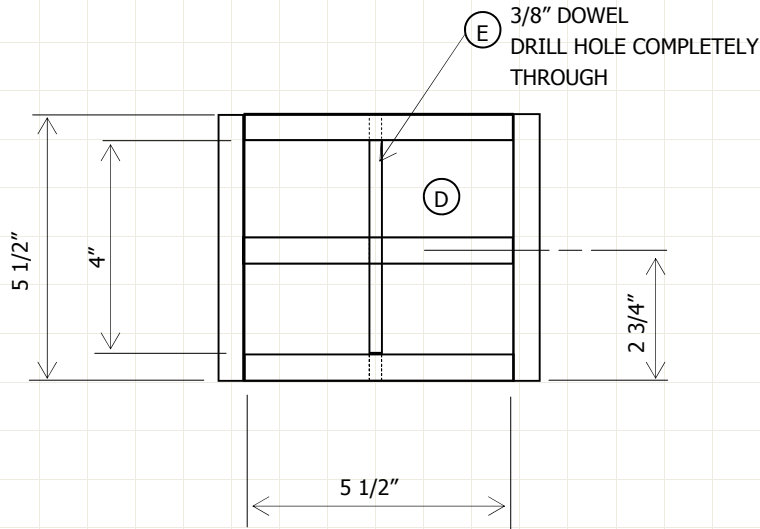
1. 1X6 DOUGLAS FIR
2. 3/8" Ø DOWEL

CUTTING SCHEDULE:

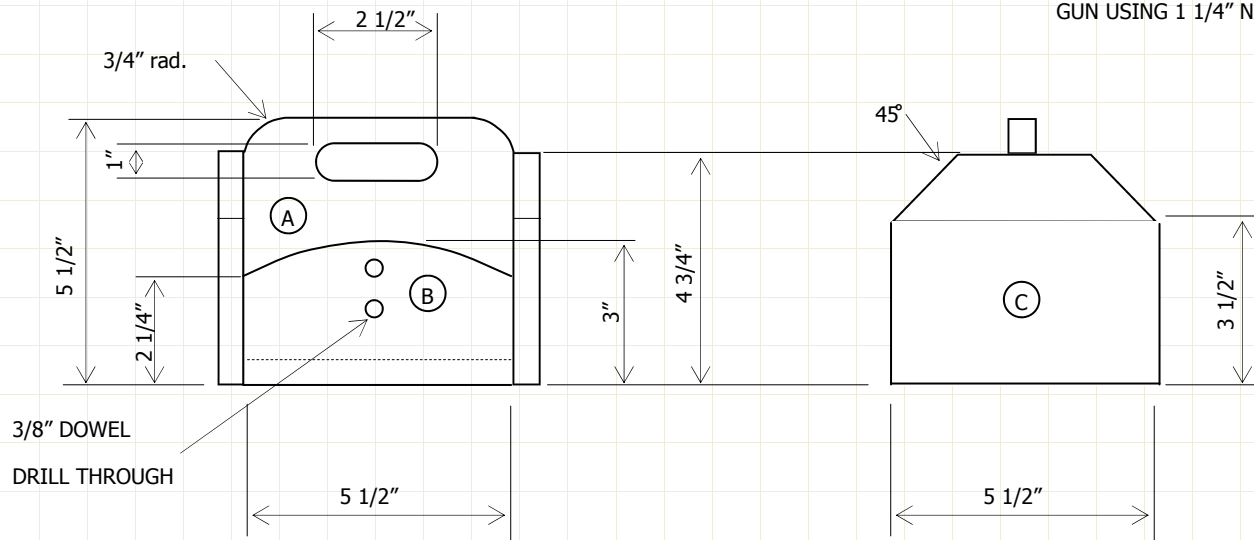
#	NAME	QTY	CUT SIZE
A	HANDLE	1	3/4 X 5 1/2 X 5 1/2
B	FRONT/ BACK	2	3/4 X 5 1/2 X 3
C	SIDE	2	3/4 X 5 1/2 X 4 3/4
D	BOTTOM	1	3/4 X 5 1/2 X 4
E	DIVIDER	1	3/8 X 5 1/2 DOWEL

NOTES:

1. ALL JOINTS TO BE JOINED WITH A NAIL GUN USING 1 1/4" NAILS.



TOP VIEW



FRONT VIEW

RIGHT SIDE VIEW

Name:

Class:

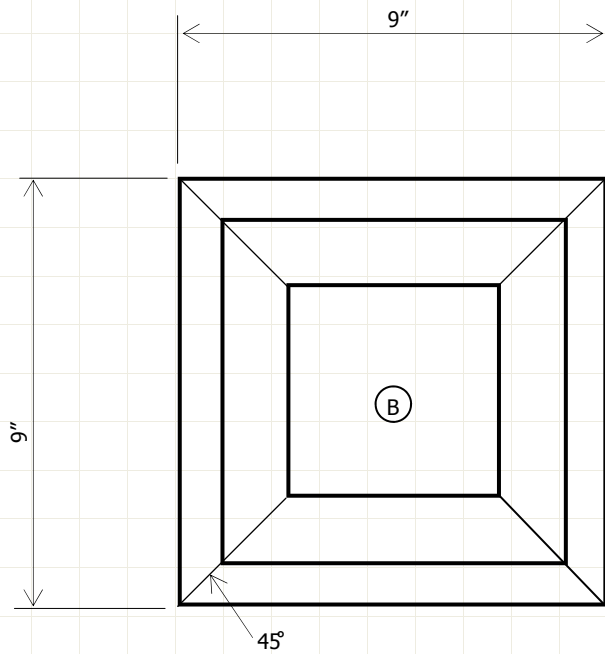
Date:

OFFICE BOX

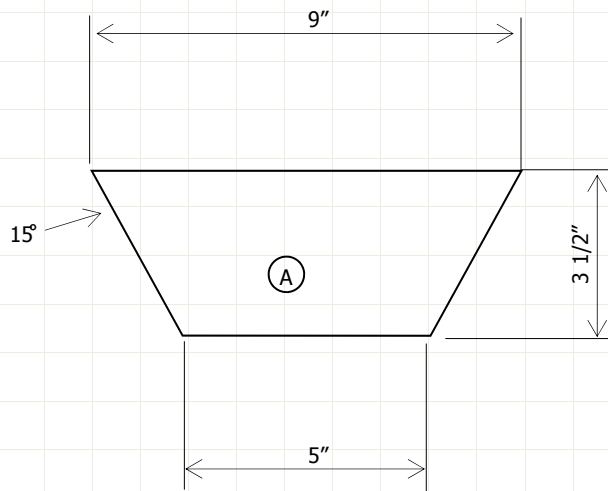
Scale 1/4" = 1"

Difficulty Level

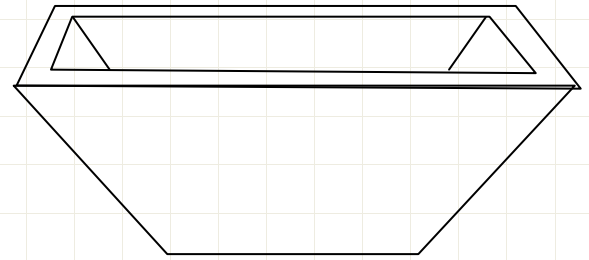
3



TOP VIEW



FRONT VIEW



LIST OF MATERIALS:

1. 1X4 DOUGLAS FIR

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	SIDE	4	3/4 X 3 1/2 X 9
B	BOTTOM	1	3/4 X 3 1/2 X 3 3 1/2

NOTES:

1. ALL JOINTS TO BE JOINED WITH A NAIL GUN USING 1 1/4" NAILS.
2. DO NOT CUT 9" LENGTHS. CUT FOUR 12" LENGTHS. THEN, SET MITER SAW TABLE AT 15° AND THE SAW AT 45°. NEXT, CUT ONE END OF EACH OF THE FOUR PIECES. FINALLY, SET UP A STOP BLOCK FOR 9" AND CUT THE REMAIN-

Name:

Class:

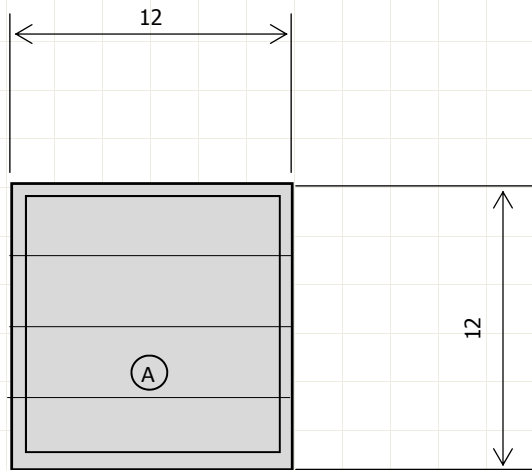
Date:

SQUARE BOWL

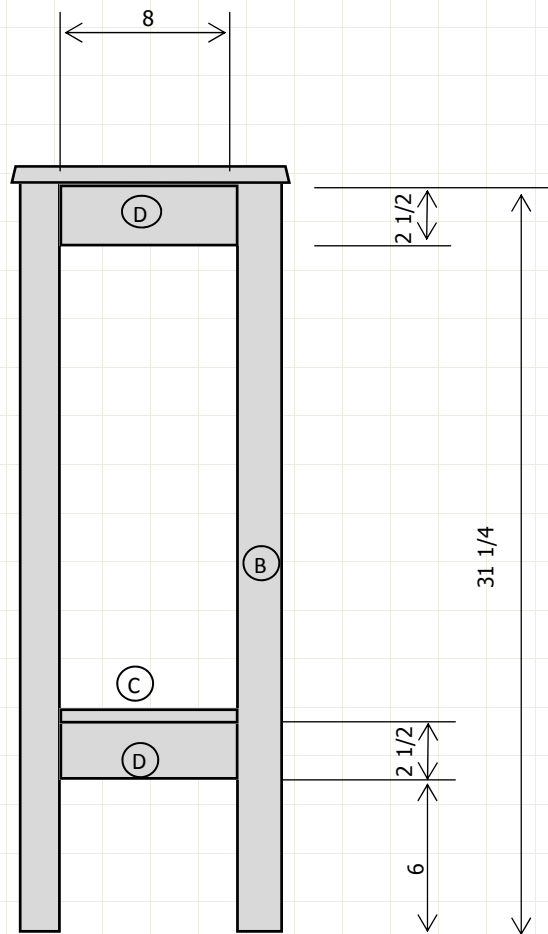
Scale 1/4" = 1"

Difficulty Level

3



TOP VIEW



FRONT VIEW



LIST OF MATERIALS:

1. 2X2 DOUGLAS FIR
2. 1X4 DOUGLAS FIR
3. 1x3 DOUGLAS FIR

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	TOP	4	3/4 X 3 1/2 X 12
B	LEG	4	1 1/2 X 1 1/2 X 31 1/4
C	SHELF	4	3/4 X 3 1/2 X 36
D	RAIL	8	3/4 X 2 1/2 X 8

REQUIRED TOOLS

1. MITER SAW
2. PLANER
3. JOINTER
4. TABLE SAW
5. BISCUIT JOINTER

JOINERY

1. POCKET SCREW
2. BISCUIT JOINTS FOR TOP

Name:

Class:

Date:

Plant Table

Scale 1/4" = 2"

Difficulty Level

4



LIST OF MATERIALS:

1. 2X2 DOUGLAS FIR
2. 1X4 DOUGLAS FIR
3. 1X3 DOUGLAS FIR

REQUIRED TOOLS

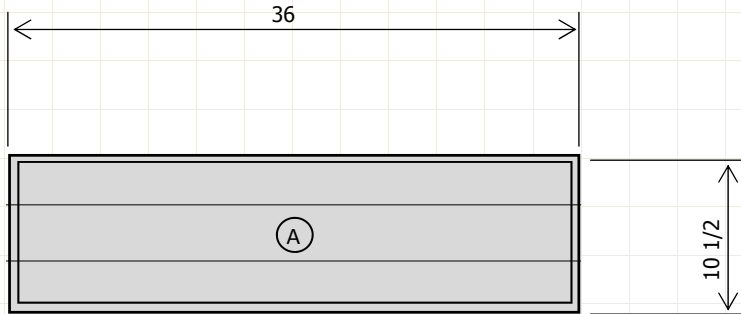
1. MITER SAW
2. PLANER
3. JOINTER
4. TABLE SAW

JOINERY

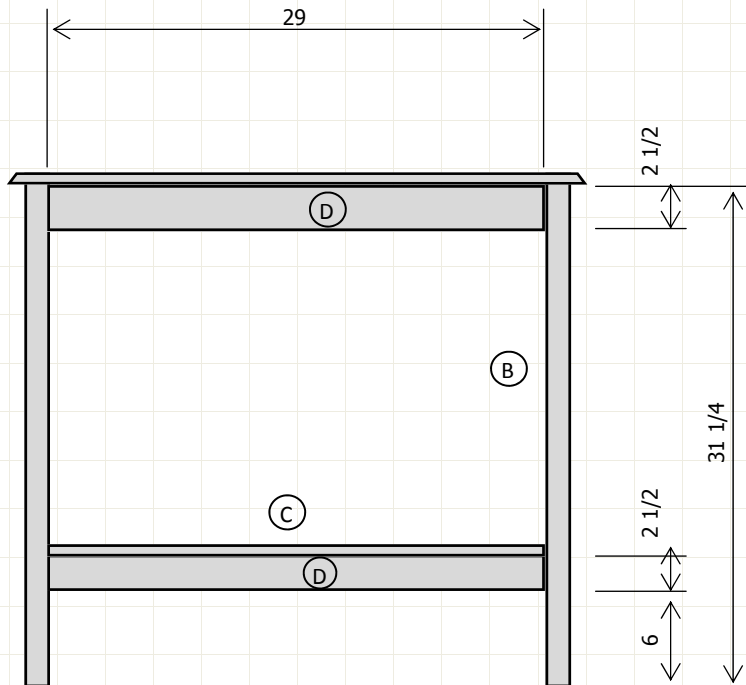
1. POCKET SCREW

CUTTING SCHEDULE:

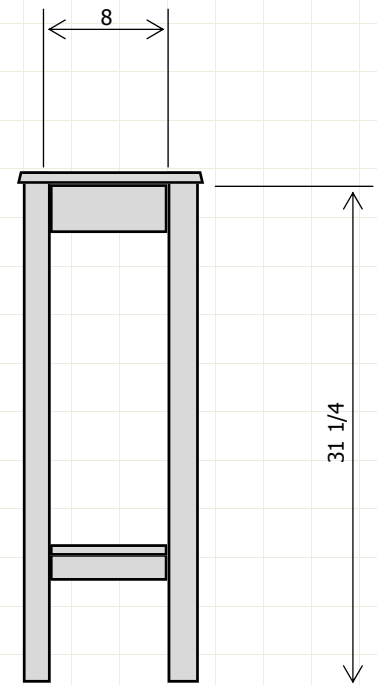
#	NAME	QTY	CUT SIZE
A	TOP	4	3/4 X 3 1/2 X 36
B	LEG	4	1 1/2 X 1 1/2 X 31 1/4
C	SHELF	3	3/4 X 3 1/2 X 36
D	RAIL	4	3/4 X 2 1/2 X 29
E	RAIL	4	3/4 X 2 1/2 X 8
F			



TOP VIEW



FRONT VIEW



SIDE VIEW

Name:

Class:

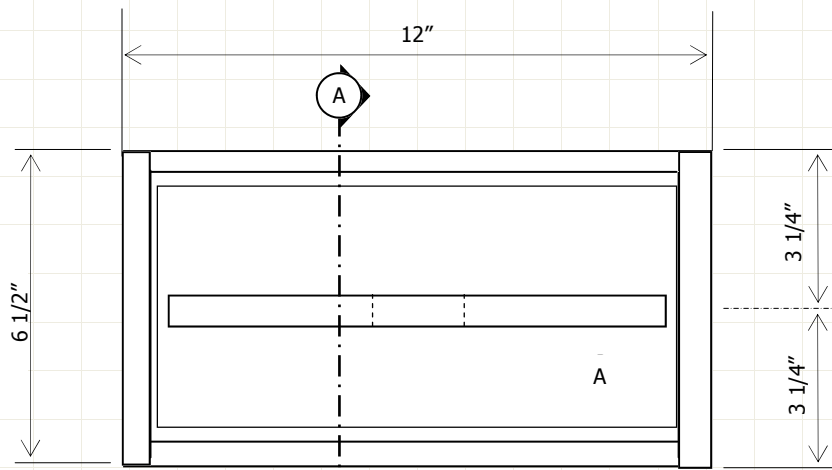
Date:

ENTRY TABLE

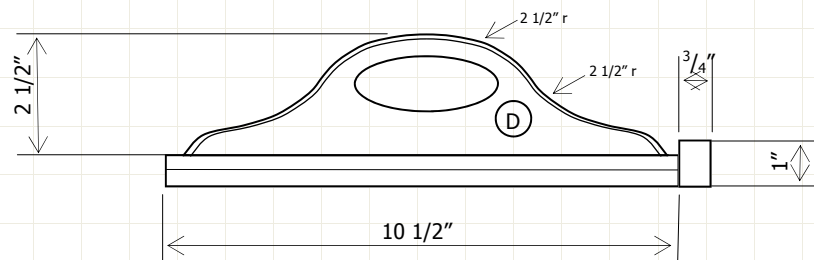
Scale 1/4" = 3"

Difficulty Level

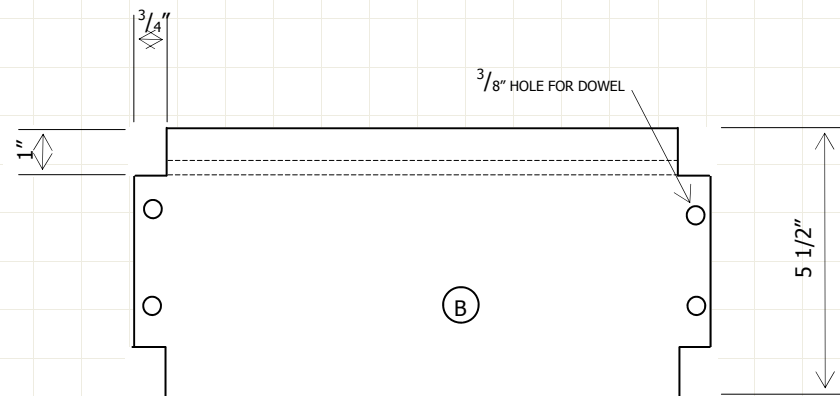
4



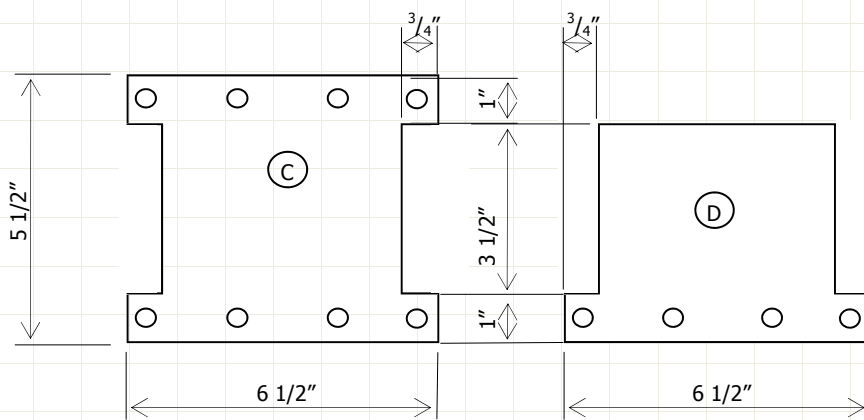
TOP VIEW



HANDLE

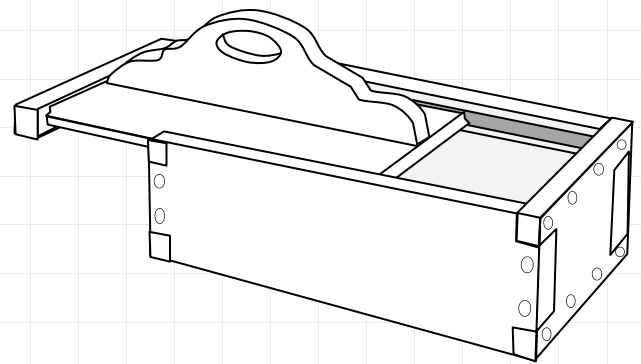


SIDES



END A

END B



LIST OF MATERIALS:

1. 1X3 DOUGLAS FIR
2. 1X6 DOUGLAS FIR

CUTTING SCHEDULE:

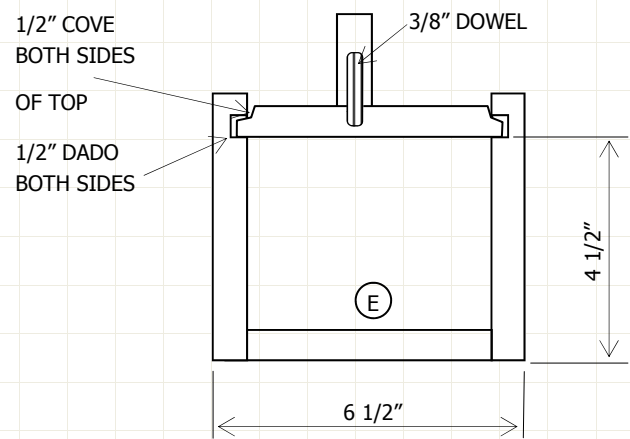
#	NAME	QTY	CUT SIZE
A	TOP	1	3/4 X 5 1/2 X 10 1/2
B	SIDE	2	3/4 X 5 1/2 X 12
C	END A	1	3/4 X 5 1/2 X 6 1/2
D	END B	2	3/4 X 5 1/2 X 4 1/2
E	HANDLE	1	3/4 X 2 1/2 X 10
F	BOTTOM	1	TEACHER CUT

REQUIRED TOOLS

1. MITER SAW
2. SCROLL SAW
3. DISC SANDER
4. OSCILATING SANDER
5. ROUTER

JOINERY

1. DOWEL



SECTION A

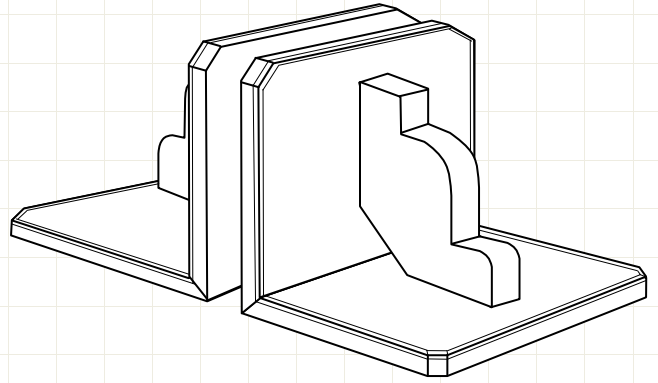
Name: _____
 Class: _____
 Date: _____

BOX WITH LID

Scale 1/4" = 1"

Difficulty Level

4



LIST OF MATERIALS:

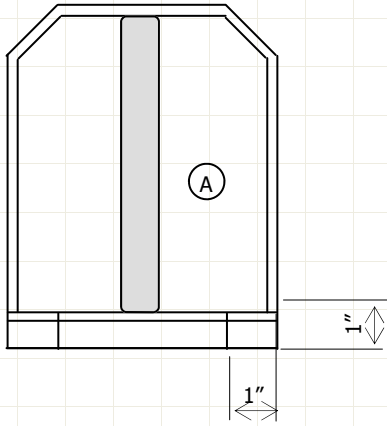
1. 1X6 DOUGLAS FIR

CUTTING SCHEDULE:

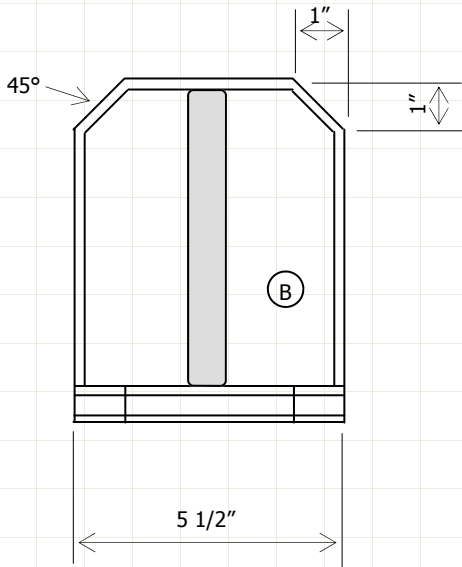
#	NAME	QTY	CUT SIZE
A	BASE	2	3/4 X 5 1/2 X 7
B	RISER	2	3/4 X 5 1/2 X 7
C	DESIGN	2	YOU CHOOSE

NOTES:

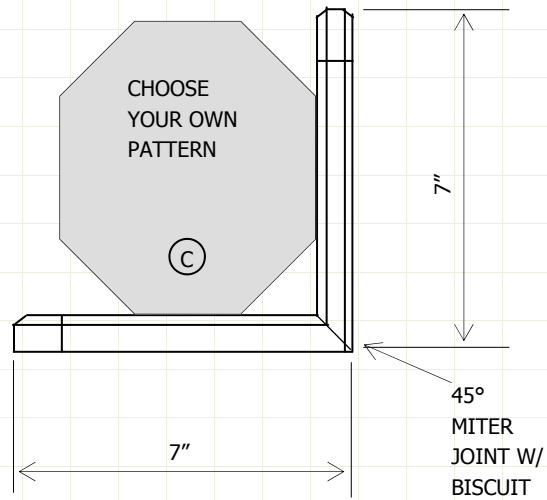
1. ALL JOINTS TO BE FASTENED WITH BISCUITS
2. ROUTER FACE EDGES
3. CUT THE MITER BEFORE CUTTING LENGTH OF BASE AND SUPPORT



TOP VIEW



FRONT VIEW



RIGHT SIDE VIEW

Name:

Date:

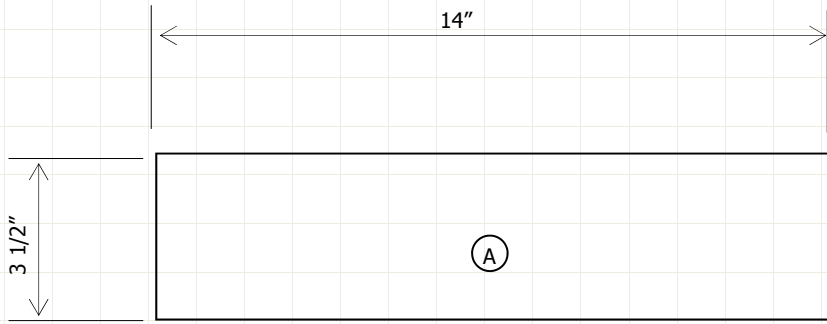
Class:

Bookends

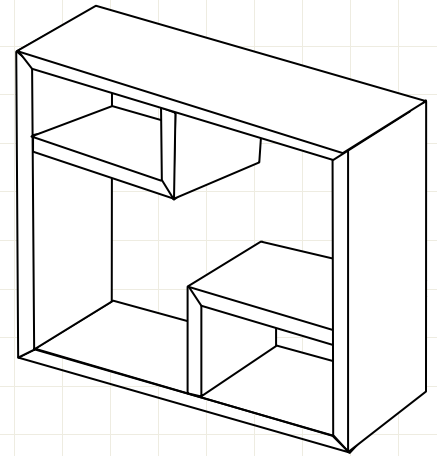
Scale 1/4" = 1"

Difficulty Level

5



TOP VIEW

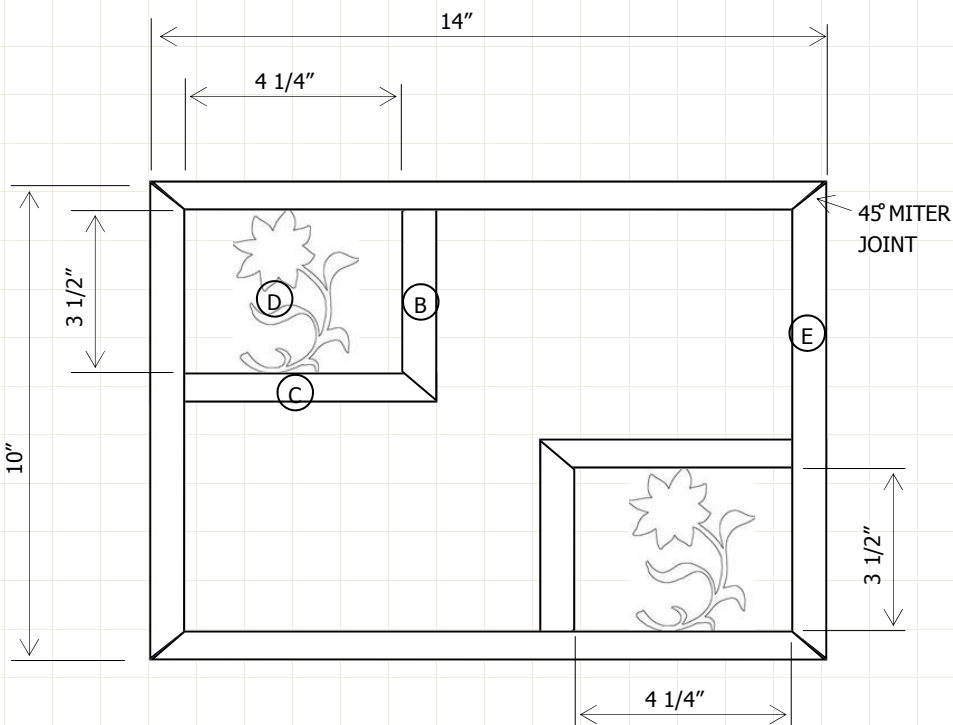


LIST OF MATERIALS:

1. 1X4 DOUGLAS FIR
2. 1/4 PLYWOOD

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	TOP/ BOTTOM	2	3/4 X 3 1/2 X 14 See note #3 below
B	SIDE SHELF	2	3/4 X 3 1/2 X 4 1/4 See note #3 below
C	BOTTOM/ TOP SHELF	2	3/4 X 3 1/2 X 5 See note #3 below
D	BACK	2	1/4 X 3 3/4 X 4 3/4
E	SIDE	2	3/4 X 3 1/2 X 10



FRONT VIEW

NOTES:

1. ALL JOINTS TO BE FASTENED WITH BISCUITS
2. CUT A MITER JOINT AT THE END OF EACH PIECE. THEN MEASURE AND CUT THE REMAINING MITER JOINT AT THE OPPOSITE END.
3. AFTER ASSEMBLY, ROUTER A 1/4" RABBIT JOINT ON THE BACK OF EACH SMALL SHELF AND INSERT A BACK. IN THE BACK, CUT OUT A DESIGN.

Name:

Date:

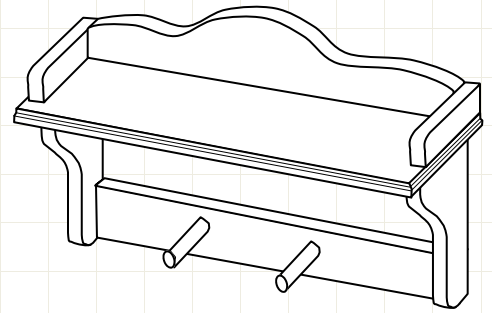
Class:

CURIO SHELF

Scale 1/2" = 1"

Difficulty Level

5

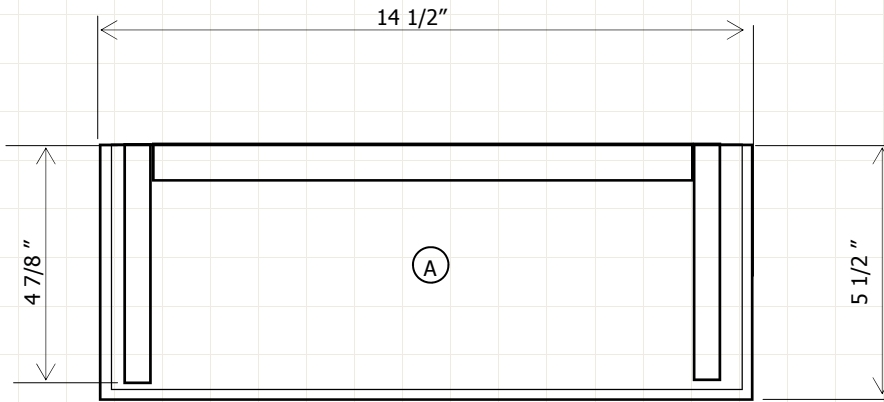


LIST OF MATERIALS:

1. 1X6 DOUGLAS FIR
2. 1X4 DOUGLAS FIR
3. 1X2 DOUGLAS FIR
4. SHAKER PEG

CUTTING SCHEDULE:

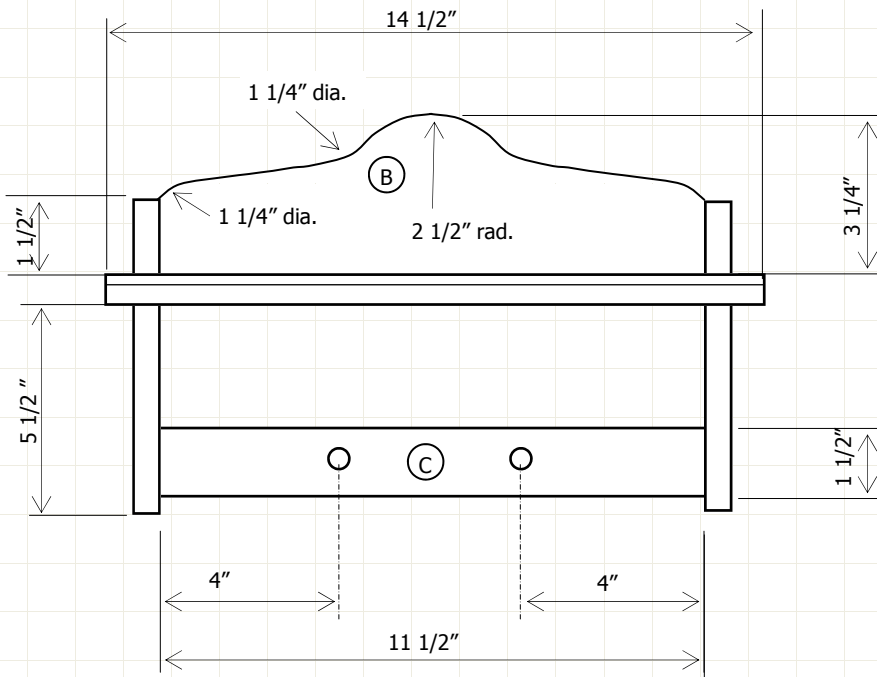
#	NAME	QTY	CUT SIZE
A	SHELF	1	3/4 X 5 1/2 X 14 1/2
B	BACK	1	3/4 X 3 1/2 X 11 1/2
C	BACK RAIL	1	3/4 X 1 1/2 X 11 1/2
D	SIDE	2	3/4 X 5 1/2 X 4 7/8
E	SIDE DECO	2	3/4 X 5 1/2 X 4 7/8
F	HANGER	2	SHAKER PEG



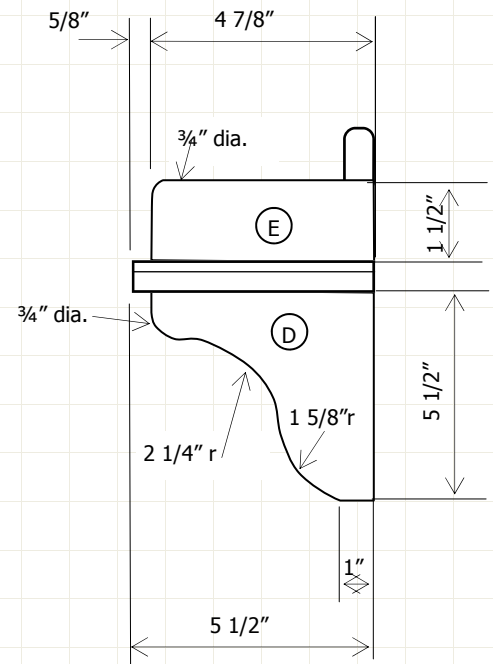
TOP VIEW

NOTES:

1. ALL JOINTS TO BE FASTENED WITH DOWELS
2. ROUTER SHELF EDGES ON THREE SIDES



FRONT VIEW



RIGHT SIDE VIEW

Name:

Date:

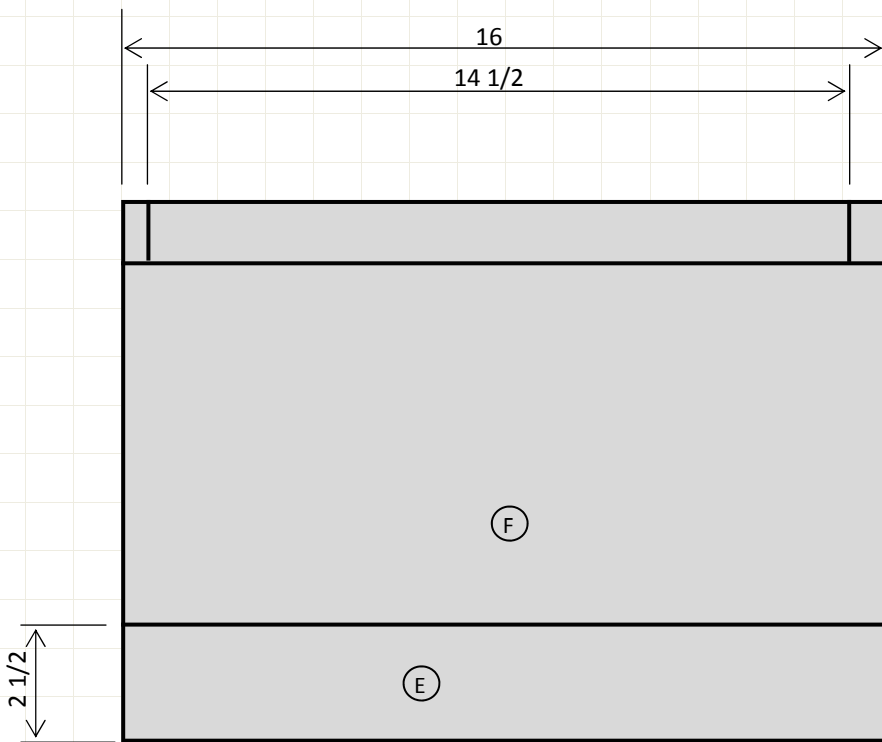
Class:

Shelf

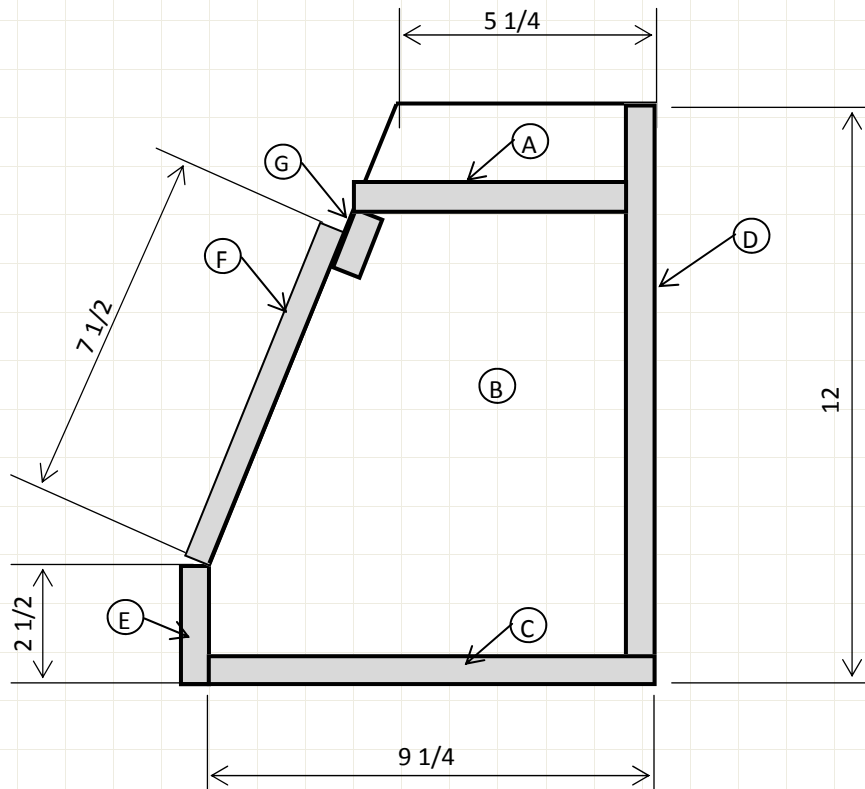
Scale 1/4" = 1"

Difficulty Level

4



FRONT VIEW



SECTION VIEW



LIST OF MATERIALS:

1. 1X3 DOUGLAS FIR (FRONT)
2. 1X10 DOUGLAS FIR (BOTTOM)
3. 1x12 DOUGLAS FIR (BACK AND SIDES)
4. 1X8 DOUGLAS FIR (DOOR)
5. 1X2 DOUGLAS FIR (TRIM)

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	TOP	1	3/4 X 5 1/2 X 14 1/2
B	SIDE	2	3/4 X 9 1/4 X 11 1/4
C	BOTTOM	1	3/4 X 9 1/4 X 14 1/2
D	BACK	1	3/4 X 11 1/4 X 14 1/2
E	FRONT	1	3/4 X 2 1/2 X 16
F	DOOR	1	3/4 X 7 1/2 X 16
G	TRIM	1	3/4 X 1 1/2 X 14 1/2

REQUIRED TOOLS

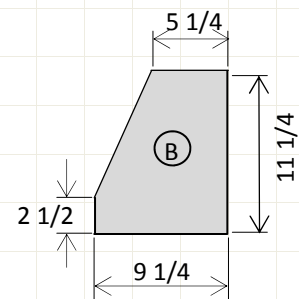
1. MITER SAW
2. DRILL PRESS

JOINERY

1. SCREW—COUNTER SINK AND PLUG

FUN OPTIONS

1. WOOD BURN IMAGE INTO DOOR.



REDUCED SIDE VIEW

Name:

Class:

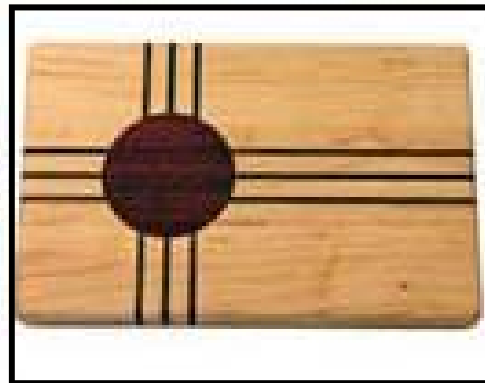
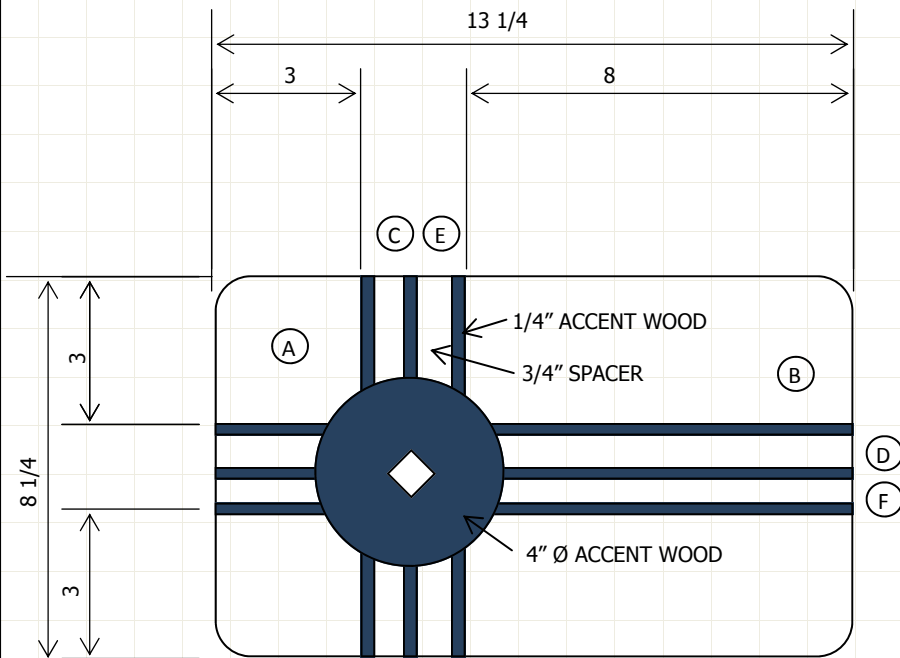
Date:

BREADBOX

Scale 1/4" = 1"

Difficulty Level

3



LIST OF MATERIALS:

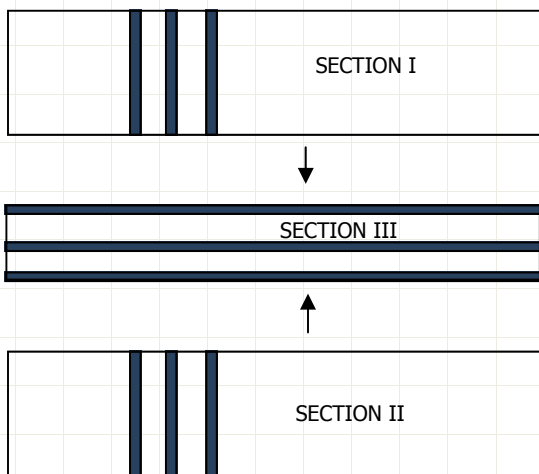
- 1X4 DOUGLAS FIR (BOARD)
- 1x1 DOUGLAS FIR (SPACER)
- 1X6 ACCENT WOOD

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	BOARD	2	3/4 X 3 X 3
B	BOARD	2	3/4 X 3 X 8
C	ACCENT	2	3/4 X 1/4 X 3
D	ACCENT	2	3/4 X 1/4 X 13 1/4
E	SPACER	2	3/4 X 3/4 X 3
F	SPACER	2	3/4 X 3/4 X 13 1/4

SPECIAL INSTRUCTIONS:

1. CUT TWO PIECES OF 1X4 DOUGLAS FIR TO 12"
2. PLAIN TO 3" ON JOINTER
3. CUT TO FINISH SIZES 3" AND 8"
4. CUT ACCENT AND SPACER PIECES 3" AND 13 3/4"
5. GLUE SECTIONS I AND II (PIECES A, B, C AND E)
6. GLUE SECTION III (PIECES D AND F)
7. THEN, GLUE SECTIONS I, II, AND III TOGETHER
8. USE 4" HOLE SAW TO CUT OUT CIRCLE
9. CUT 4" CIRCLE OF ACCENT WOOD WITH HOLE SAW
10. USE 3/4" MORTISER TO CUT SQUARE OUT OF CENTER OF CIRCLE
11. GLUE IN 3/4 X 3/4 ACCENT WOOD IN SQUARE
12. INSERT CIRCLE
13. RUN CUTTING BOARD THROUGH PLANER UNTIL FLAT SURFACE IS ACQUIRED



REQUIRED TOOLS

1. MITER SAW
2. DRILL PRESS W/ 3" HOLE SAW
3. PLANER
4. JOINTER

JOINERY

1. GLUE

FUN OPTIONS

1. USE DIFFERENT COLOR WOOD FOR DECO STRIPS AND CIRCLE INLAY

Name:

Class:

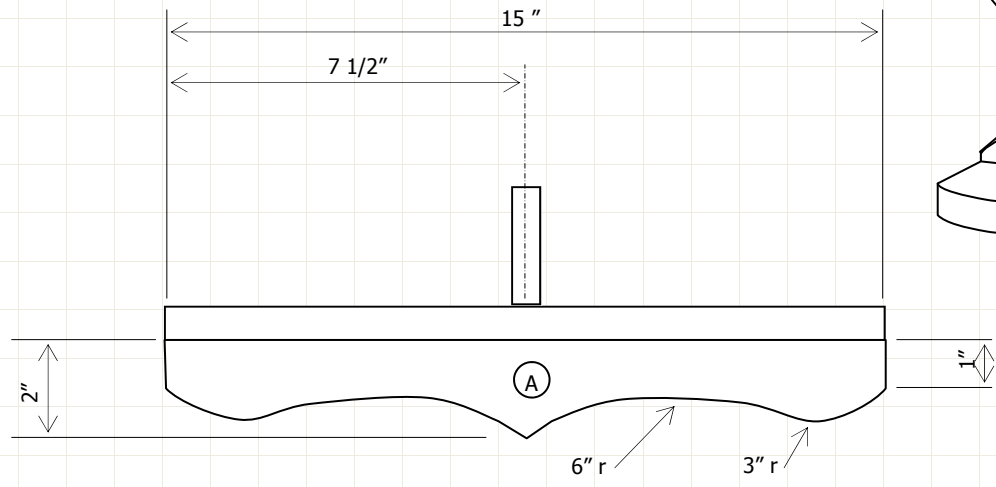
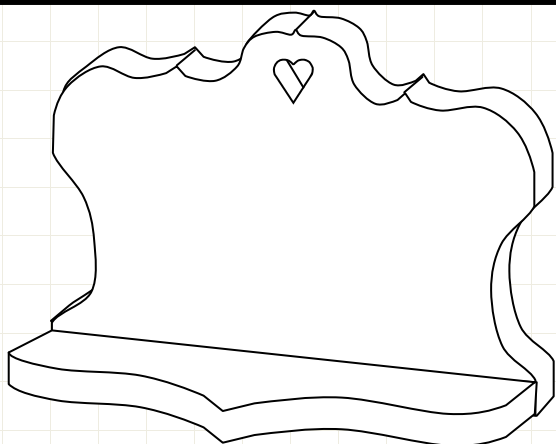
Date:

CUTTING BOARD

Scale 1/4" = 1"

Difficulty Level

4



TOP VIEW

LIST OF MATERIALS:

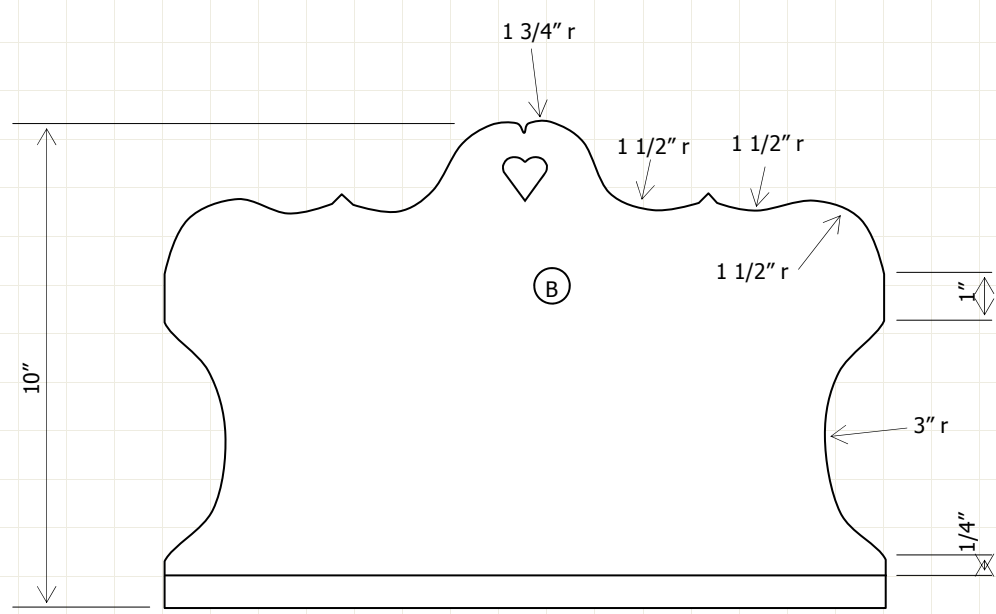
1. 1X10 DOUGLAS FIR
2. 1X3 DOUGLAS FIR

CUTTING SCHEDULE:

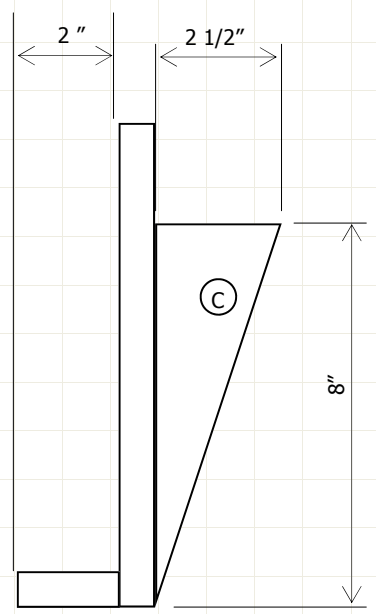
#	NAME	QTY	CUT SIZE
A	SHELF	1	3/4 X 2 1/2 X 15
B	BACK	1	3/4 X 9 1/8 X 15
C	RISER	1	3/4 X 2 1/2 X 8

NOTES:

1. ALL JOINTS TO BE JOINED WITH 3/8" Ø DOWELS



FRONT VIEW



SIDE VIEW

Name: _____

Class: _____

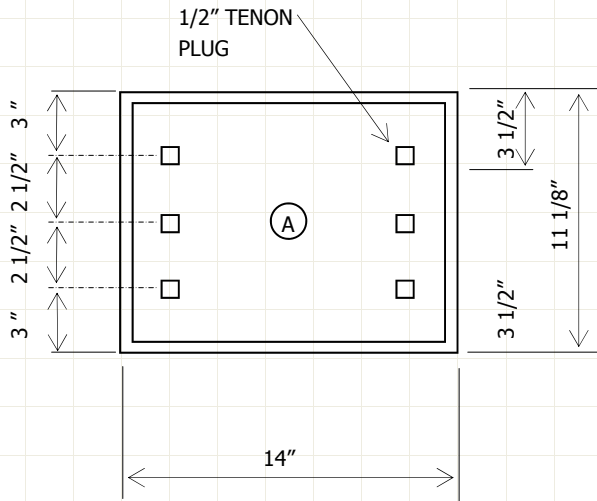
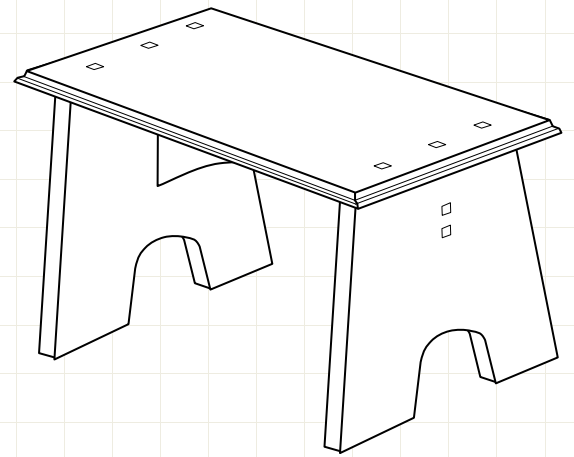
Date: _____

COOKBOOK HOLDER

Scale 1/4" = 1"

Difficulty Level

4



TOP VIEW

LIST OF MATERIALS:

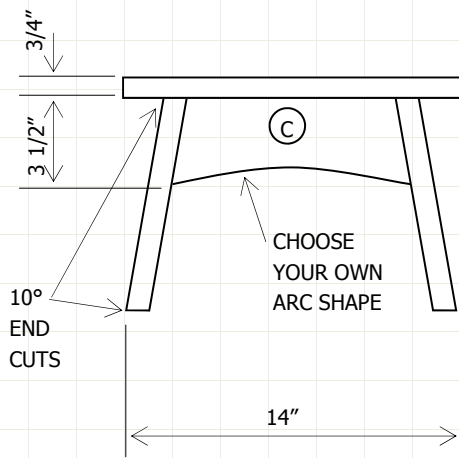
1. 1X4 DOUGLAS FIR
2. 1X12 DOUGLAS FIR

CUTTING SCHEDULE:

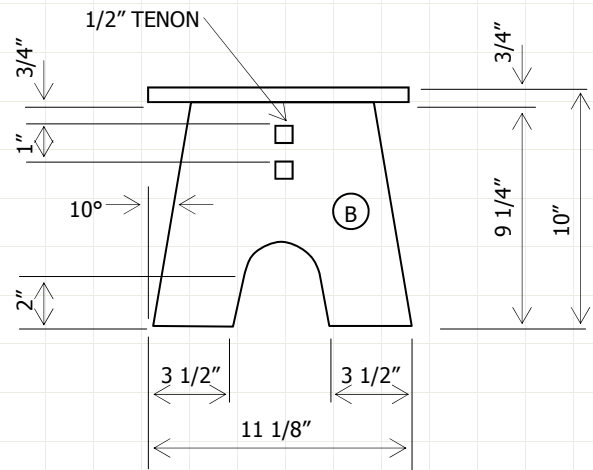
#	NAME	QTY	CUT SIZE
A	TOP	1	3/4 X 11 1/8 X 14
B	SIDE	2	3/4 X 11 1/8 X 10
C	SUPPORT	1	3/4 X 3 1/2 X CUT TO FIT
D	TENON	12	1/2 SQUARE DOWEL

NOTES:

1. ALL JOINTS TO BE FASTENED WITH MORTICE AND TENON
2. ROUTER TOP EDGES



FRONT VIEW



RIGHT SIDE VIEW

Name:

Date:

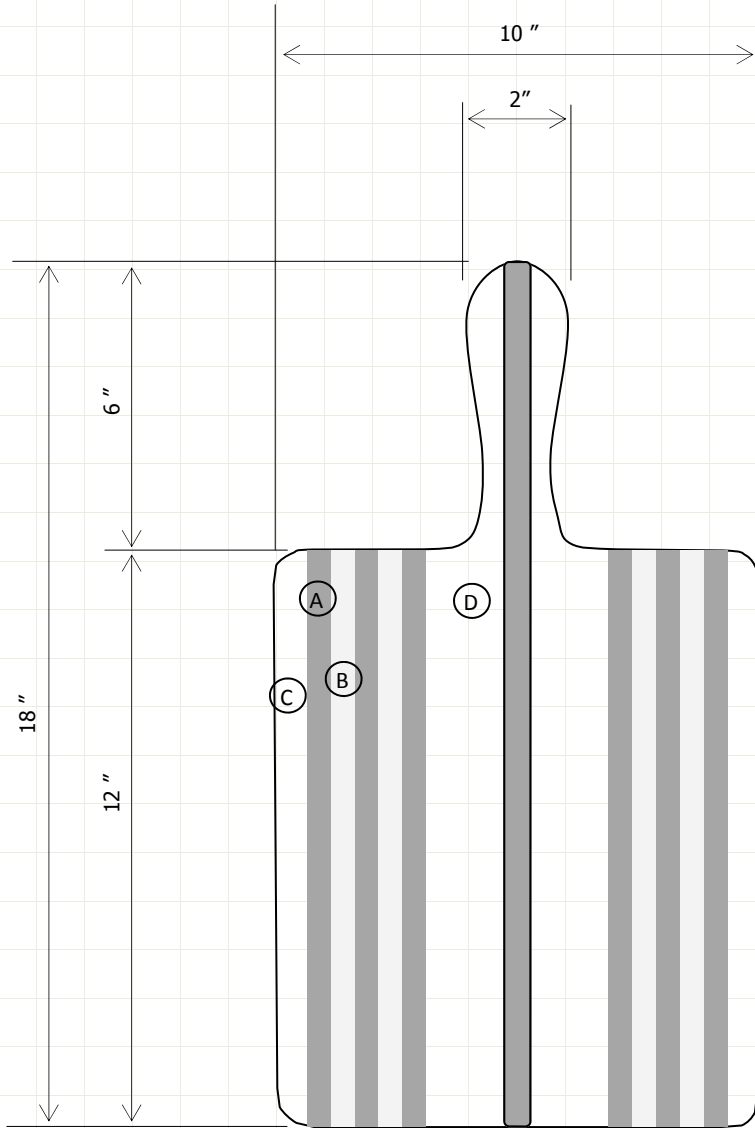
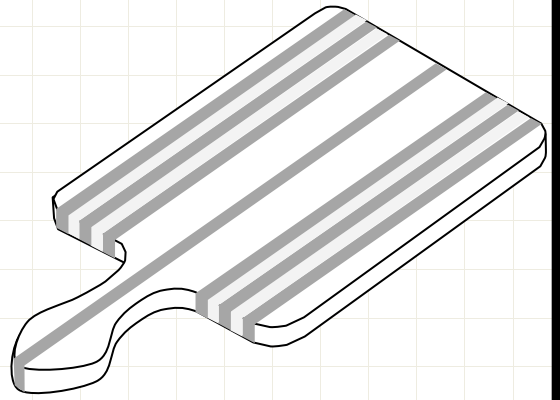
Class:

FOOTSTOOL

Scale 1/4" = 2"

Difficulty Level

6



LIST OF MATERIALS:

1. 1X DARK WOOD
2. 1X MEDIUM WOOD
3. 1X LIGHT WOOD

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	DARK	7	3/4 X 1/2 X 18
B	MEDIUM	4	3/4 X 1/2 X 18
C	LIGHT	2	3/4 X 1 X 18
D	LIGHT	2	3/4 X 1 1/2 X 18

NOTES:

1. ALL JOINTS TO BE FASTENED WITH GLUE BUT JOINT

Name:

Class:

Date:

Cutting Board

Scale 1/4" = 1"

Difficulty Level

7



www.shutterstock.com - 54205729



Name:

Date:

Class:

SALT/PEPPER SHAKERS

No scale

Difficulty Level

8



Name:

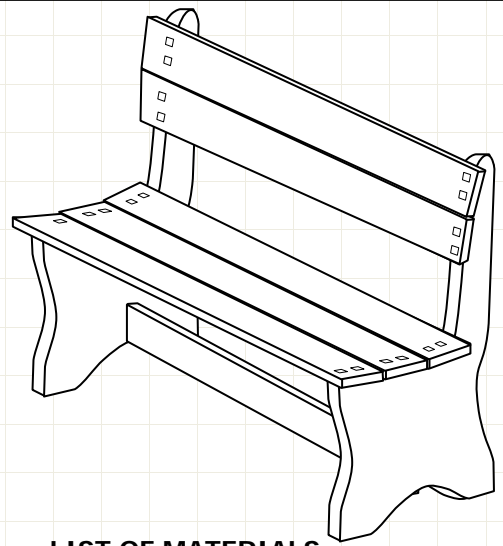
Date:

Class:

BOWL IDEAS

Difficulty Level

8



LIST OF MATERIALS:

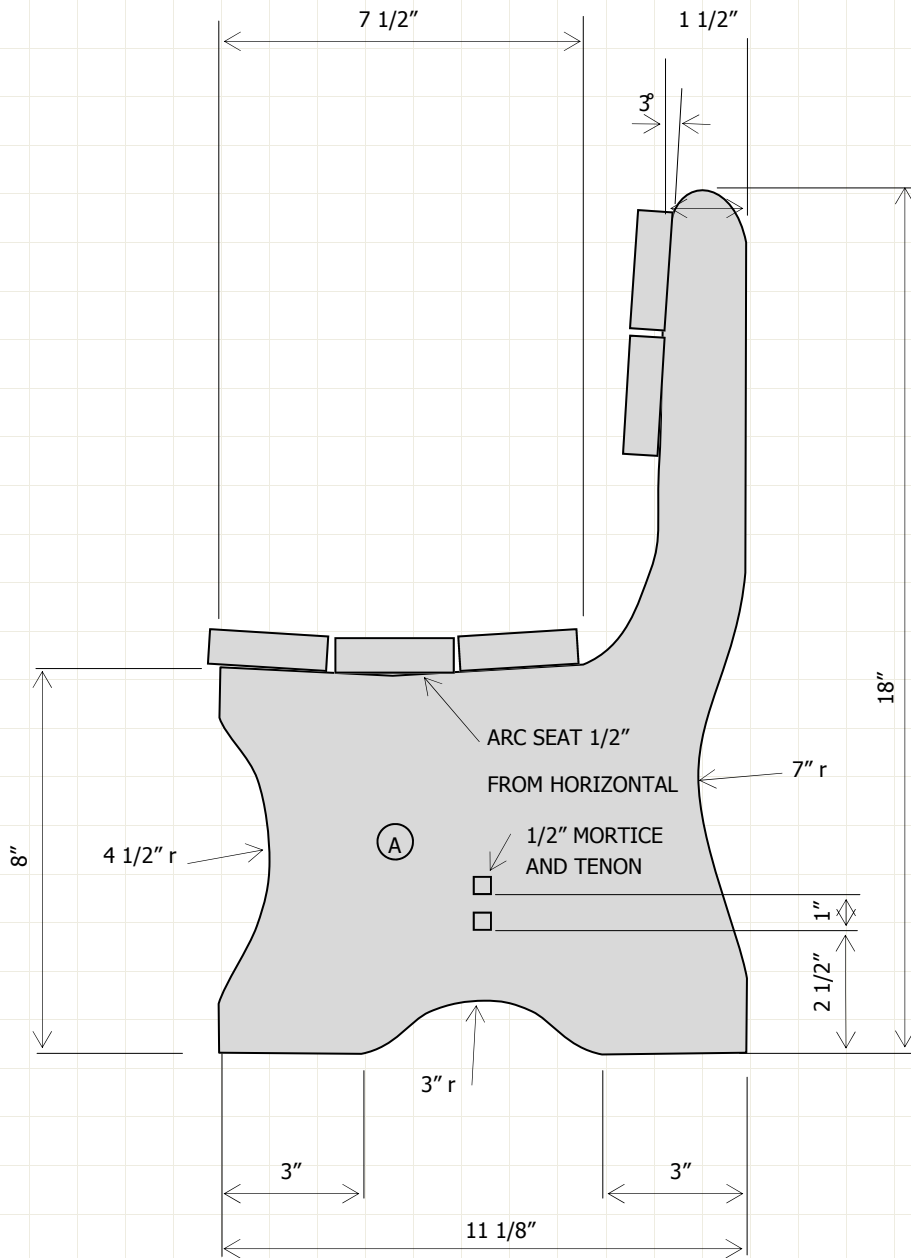
1. 1X4 DOUGLAS FIR
2. 1X12 DOUGLAS FIR

CUTTING SCHEDULE:

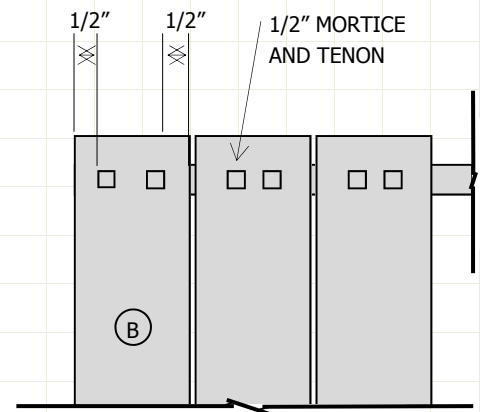
#	NAME	QTY	CUT SIZE
A	SIDE	2	3/4 X 11 1/8 X 18
B	RAIL	5	3/4 X 2 1/2 X 20
C	SUPPORT	1	3/4 X 2 1/2 X 17 1/2
D	TENON	24	1/2 SQUARE DOWEL

NOTES:

1. ALL JOINTS TO BE FASTENED WITH MORTICE AND TENON



SIDE VIEW



PARTIAL TOP VIEW

Name:

Date:

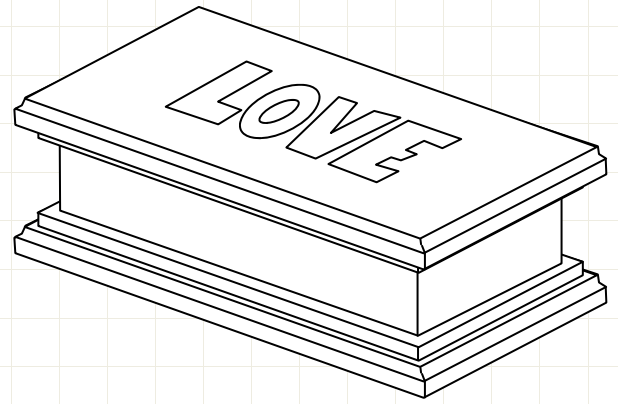
Class:

CHILD'S BENCH

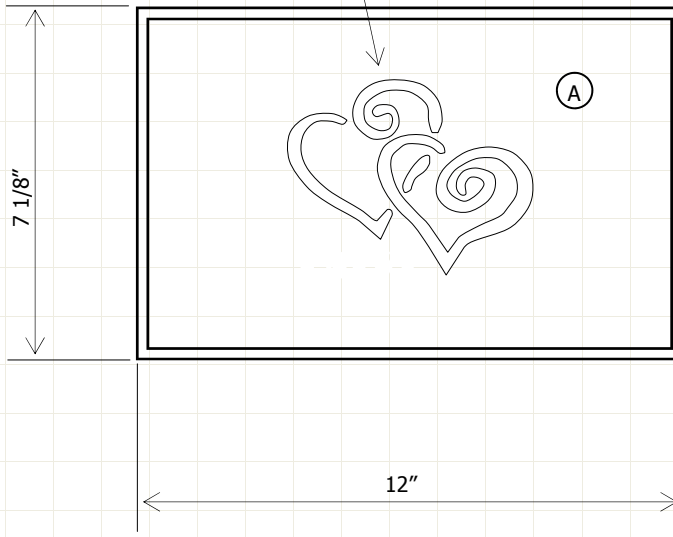
Scale 1/4" = 2"

Difficulty Level

6



DETERMINE YOUR OWN
SCROLL PATTERN



TOP VIEW

LIST OF MATERIALS:

1. 1X4 DOUGLAS FIR
2. 1X8 DOUGLAS FIR
3. 1/2 SQUARE DOWEL

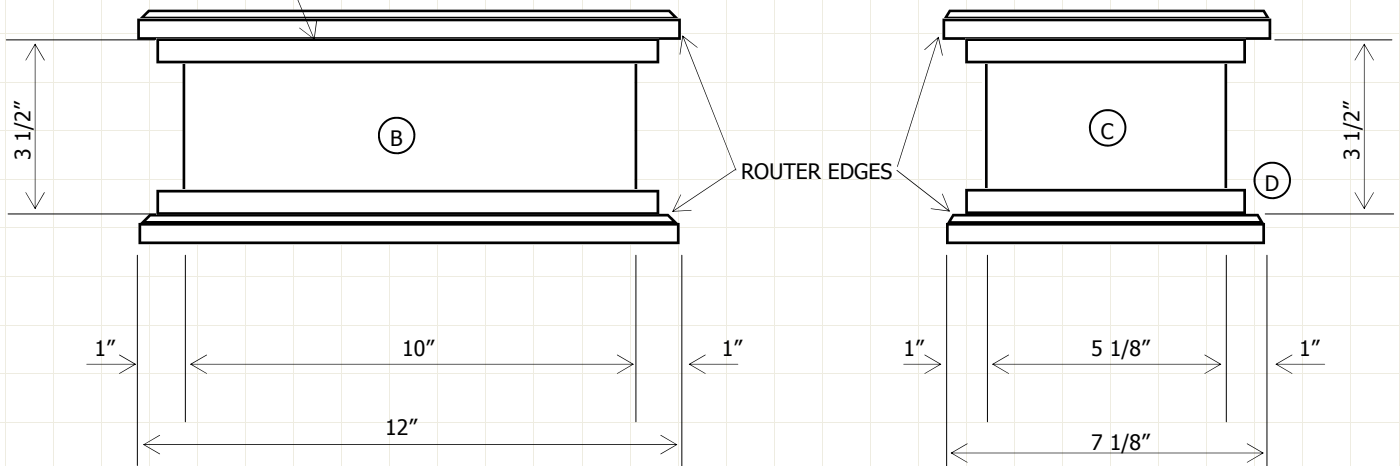
CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	TOP/ BOTTOM	2	3/4 X 7 1/8 X 12
B	FRONT/ BACK	2	3/4 X 3 1/2 X 11 1/2
C	SIDE	2	3/4 X 1 1/2 X 11 1/2
D	TRIM	-	1/2 TRIM TO FIT

NOTES:

1. ALL JOINTS TO BE FASTENED WITH BIS-CUTS
2. CUT A MITER JOINT AT THE END OF EACH PIECE. THEN MEASURE AND CUT THE REMAINING MITER JOINT AT THE OPPOSITE END.
3. ROUTER TOP EDGES OF TOP AND BOTTOM

1/2" SQUARE DOWEL
MITER CUT ATTACHED W/
NAIL GUN



FRONT VIEW

RIGHT SIDE VIEW

Name:

Class:

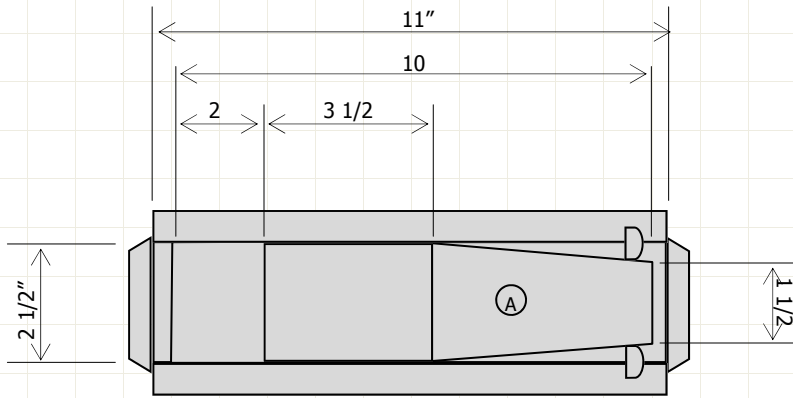
Date:

DECO BOX

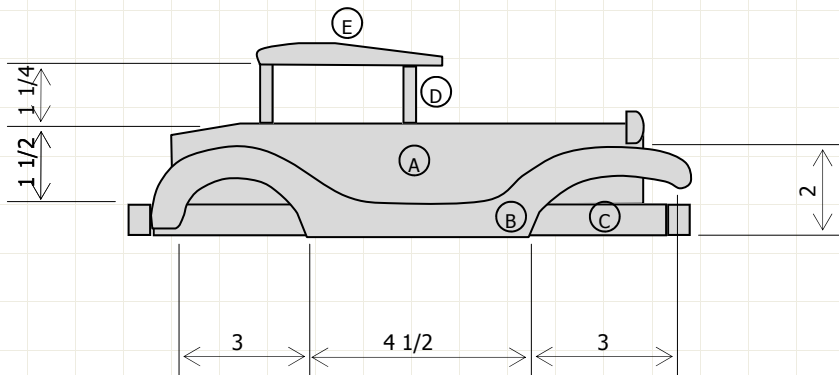
Scale 1/4" = 1"

Difficulty Level

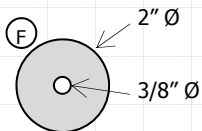
5



TOP VIEW



SIDE VIEW



WHEEL—SIDE VIEW



LIST OF MATERIALS:

1. 2X4 DOUGLAS FIR
2. 1X3 DOUGLAS FIR
3. 3/8 CAP
4. 3/8 SQUARE DOWEL
5. 3/4 SQUARE DOWEL
6. 1/2 X 4 DOUGLAS FIR

CUTTING SCHEDULE:

#	NAME	QTY	CUT SIZE
A	BODY	1	1 1/2 X 3 1/2 X 10
B	FINDER	1	3/4 X 2 X 11 1/2
C	CHASIS	1	3/4 X 2 1/2 X 11
D	FRAME	4	3/8 SQ. DOWEL X 1 1/4
E	ROOF	1	1/2 X 2 1/2 X 3 1/2
F	WHEEL	4	3/4 X 2 Ø
G	BUMPER	2	3/4 SQ. DOWEL X 2 1/2

JOINERY:

1. ALL JOINTS TO BE GLUED



Name:

Class:

Date:

MODEL T

Scale 1/4" = 1"

Difficulty Level

3

