

Mr. Polley PolleyTechnical.com Tech 7

03/27/19

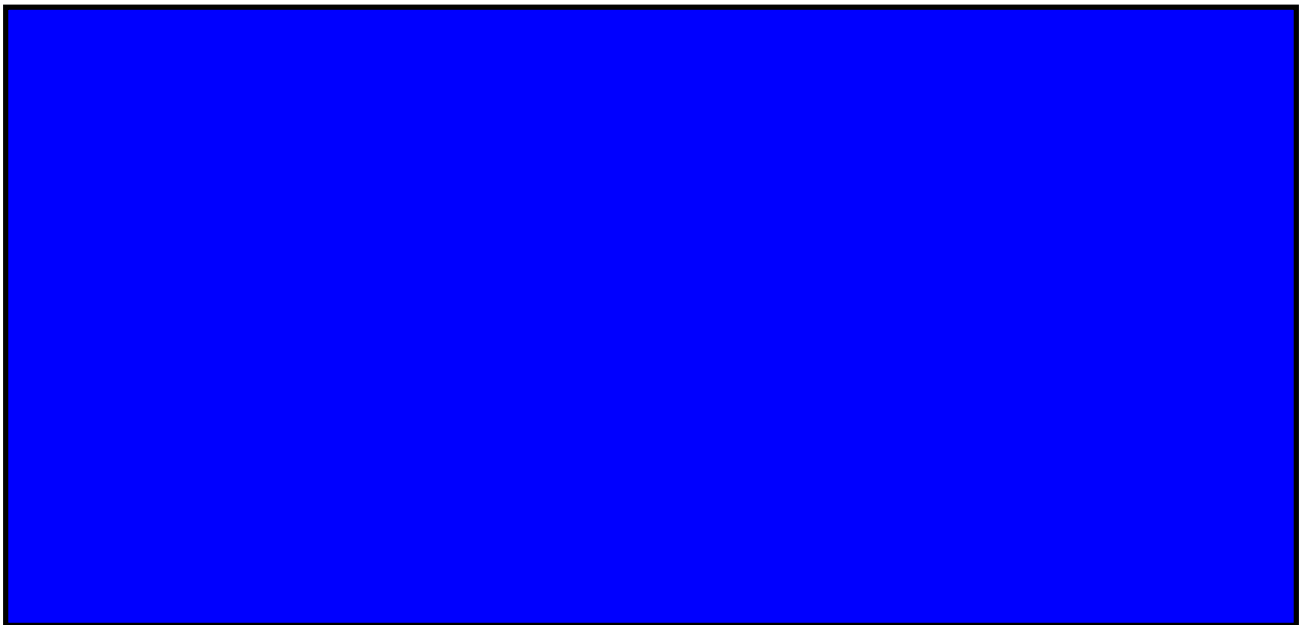
HW Bandsaw Safety rules 3/ 5-6

D.N.- Notes

AIM- What is CAD?

Computer Aided Design

The use of computers to design objects. CAD specific apps allow a designer to create an object that can be viewed 3 dimensionally. Additionally, some programs can run machines that will create the objects that were designed.



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3/3/20

D.N.- Laptop at seat Lid closed

AIM- Getting started with CAD, What am I expected to do?

CAD project rubric

Tutorials & Lessons- 20 pts

Snowman- 30 points

Number Block- 30 pts

Desk Organizer- 30 points

Extra Credit- 5 pts 1"x1"x.25" initial 3d printed

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03/6/19

Bandsaw Safety Rules Due

D.N.- Wait patiently

AIM- Learning the TinkerCAD software

Today's goal the introductory learning challenges.

- Place it!
- View it!
- Move it!
- Rotate it!
- Size it up!
- Group it!
- Align it!

**If & when you finish
the beginner lessons
you may try out the
software and/or
change your profile
picture.**

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03/09/2020

Hw- Due Bandsaw Safety Rules (Canvas)
Easel backboard done by 3/16a&17b

D.N.- Laptop at seat Lid closed

CAD project Finished 3/31*

← **No longer applies but this was originally the plan.**

Tutorials & Lessons- 20 pts

- All of the Tutorials (5pts) **Completed by today**
- Lessons (15 pts) **3/12&13**
 - > Creating Holes
 - > Die From Scratch
 - > Any Button (Not Basic)
 - > Any Ring (Not Basic)
 - > Luggage tag or Key Ring

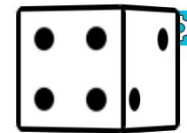
Assigned by Polley after tutorials check

Number blocks- 30 pts

Snowman- 30 points

Desk Organizer- 30 points

Extra Credit- 5 pts 1"x1"x.25" initial 3d printed



***Due date of 3/31 subject to change**

Hw- Due today create Inventables/Easel account

Hw- Due 3/9&10 Bandsaw Safety Rules (Canvas)

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03/12/2020

Hw- Due Bandsaw Safety Rules (Canvas)
Easel backboard done by 3/16a&17b

D.N.- Bandsaw safety if its owed

Easel Backboard first

CAD project Finished 3/31*

Tutorials & Lessons- 20 pts

- All of the Tutorials (5pts)
- Lessons (15 pts)
 - > Creating Holes
 - > Die From Scratch
 - > Any Button (Not Basic)
 - > Any Ring (Not Basic)
 - > Luggage tag or Key Ring

Assigned by Polley after tutorials check

Number blocks- 30 pts

Snowman- 30 points

Desk Organizer- 30 points

Extra Credit- 5 pts 1"x1"x.25" initial 3d printed

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03/13/20

Easel Backboard due by end of class 3/16**D.N.**- Notes**AIM-** What is **CAM**? Computer Aided Manufacturing

Computer Aided Manufacturing (CAM) is the use of software and computer-controlled machinery to automate a manufacturing process. CAM uses CAD and CNCs to create physical objects. CAD focuses on the design of a product or part, how it looks, and how it functions. CAM focuses on how to make it using a CNC machine.

Desk Organizer project-

1. ***Bandsaw Safety Rules past due***
2. Measure and mark wood: an 8" & 5" piece
 - > 8" piece becomes two 4" pieces (sides)
 - > 5" is the backboard
3. Cut pieces on bandsaw
4. Finish backboard design on Easel
 - > Criteria in Canvas
5. Work on late drawings owed, the manufacturing vocab sheet, or TinkerCAD

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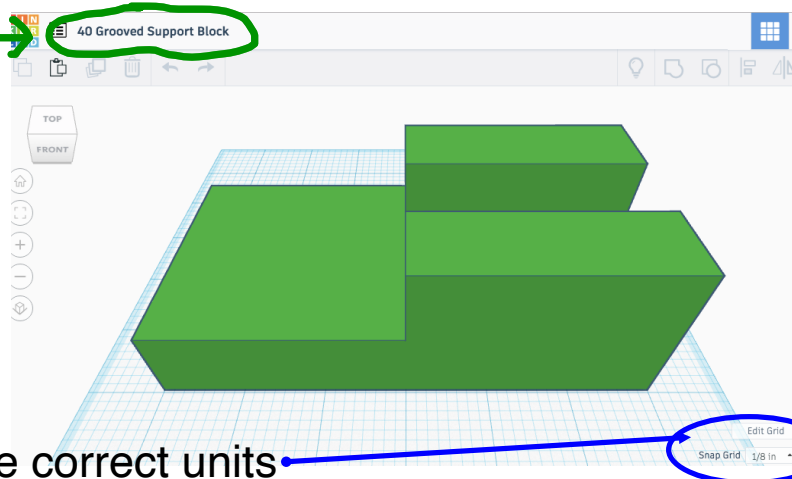
**Test Grades have been posted in IC
Tutorials & Lessons will be checked today**

0/00/20

D.N.- Laptop Log in, Open TinkerCAD, Lid closed

AIM- How do you set up your CAD drawing? How can you share your work?

1) Name the drawing by clicking on the title



2) Set the correct units

A) Edit Grid set to inches

B) Snap Grid set to 1/16"

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**Test Grades have been posted in IC
Tutorials & Lessons will be checked today**

2/13/19

D.N.- Laptop Log in, Open TinkerCAD, Lid closed

**AIM- How do you set up your CAD drawing? How can
you share your work?**

Numbered Isometric Blocks need to be submitted through
Canvas. If not you will lose 25 points.

(Same for snow person & Desk Organizer)

Tutorials will be checked today. Volunteers first then random
people. Point recovery for people scoring 19 pts or lower is to
fix the mistakes & have them checked again. 20 points and
above can do an additional Isometric block for 2-3 points

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**Test Grades have been posted in IC
Tutorials & Lessons will be checked today**

2/15/19

D.N.- Laptop Log in, Open TinkerCAD, Lid closed
Sit patiently and Quietly

AIM- Work Day
TO DO LIST:

- Get Tutorials Checked 1st time
- Submit CAD Isometric Block 42-46 **DUE 2/15 11:59:59**
- Fix your tutorials or submit point recovery

If you are done with all of the above you can try the snowperson or watch the video on how to do it, on PolleyTechnical.com

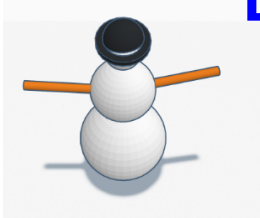
PolleyTechnical.com

2/26/18

D.N.- Get laptop log in, open Chrome & Tinkercad, close laptop lid, wait quietly.



Lets build a snowperson



Snowman- 30 points

Structure- 3 spheres, stacked no gaps, no taller than 6" No shorter than 3"

Arms- 2, attached to center, must be skinny

Head- face or head wear

Creative- Buttons, scarf, or accessories

Questions?

Due Date? 3/7 (A) 3/8 (B)

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Snowperson Day 2

2/28/19

D.N.- Get laptop log in, open Chrome & Tinkercad, open snowman, close laptop lid, wait quietly.

AIM Today's goal Face & Arms. Practice Snowperson turned into Google Classroom.



Snowman- 30 points Practice snowman (15 pts)

Structure- 3 spheres, stacked no gaps, no taller than 6" No shorter than 3"

Arms- 2, attached to center, must be skinny

Head- face or head wear

Creative- Buttons, scarf, or accessories

Due Date 3/7 (A) 3/8 (B)

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Snowperson Day 2

3/1/19

D.N.- Get laptop log in, open Chrome & Tinkercad, open snowman, close laptop lid, wait quietly.

AIM

Finish Snowman Due Dates



- Tinkercad tutorials recheck 3/4-3/12
- Iso late submit end 3/8
- Desk Organizer due 3/18

Snowman- 30 points Practice snowman (15 pts)

Structure- 3 spheres, stacked no gaps, no taller than 6" No shorter than 3"

Arms- 2, attached to center, must be skinny

Head- face or head wear

Due Date 3/7 (A) 3/8 (B)

Creative- Buttons, scarf, or accessories

PolleyTechnical.com/CAD.html

Snowperson End

3/4/19

D.N.- Get laptop log in, open Chrome & Tinkercad, open snowman, close laptop lid, wait quietly.

AIM Today's goal Face & Arms. Practice Snowperson turned into Google Classroom.



- Tinkercad tutorials recheck 3/4-3/12
- Iso late submit end 3/8
- Desk Organizer due 3/18

Snowman- 30 points Practice snowman (15 pts)

Structure- 3 spheres, stacked no gaps, no taller than 6" No shorter than 3"

Arms- 2, attached to center, must be skinny

Due Date 3/7 (A) 3/8 (B)

Head- face or head wear

Creative- Buttons, scarf, or accessories

PolleyTechnical.com/CAD.html **Snowperson End** 3/6/19

Hw- Finish snowman watch the videos on PolleyTechnical

D.N.- Get laptop log in, open Chrome, Classroom, & Tinkercad, open snowman, close laptop lid, wait quietly.



AIM Practice Snowperson turned into Google Classroom.

- Tinkercad tutorials recheck 3/4-3/12
- Iso late submit end 3/8
- Desk Organizer due 3/18 Video online.

Snowman- 30 points Practice snowman (15 pts)

Structure- 3 spheres, stacked no gaps, no taller than 6" No shorter than 3"

Arms- 2, attached to center, must be skinny

Head- face Creative- moustache, ears

Creative- Buttons, scarf, and accessories (hands, head wear)

Theme it

Due Date 3/7 (A) 3/8 (B)

PolleyTechnical.com/cad.html

3/12/19

ALL Work is due through G.C.

Bring in ear buds/headphones

D.N.- Login, Open GC & Tinkercad, close laptop

- Tinkercad tutorials rechecks today
- **Snowperson is late**
- Desk Organizer Due 3/18

Missing Snowperson

P7B- Edna, Jessica, Austin, Christopher

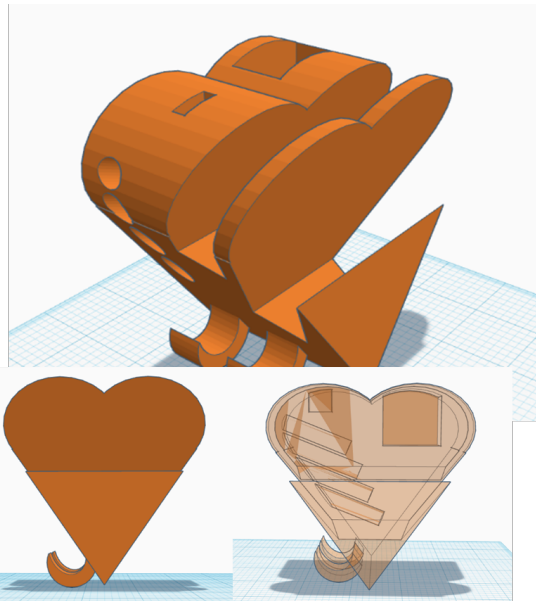
In the video I say change table size do not do that. Remember you need to change the dimensions from my example

P3B- ~~Stephen, Danyel, David, Anthony, Robert~~
~~Stephen, Danyel, David, Anthony, Robert~~

P7A- ~~Andrew, Gabe, Edna, Brian, Michael, Jacob, Rustin, Corey~~
~~Andrew, Gabe, Edna, Brian, Michael, Jacob, Rustin, Corey~~

Desk Organizer **Due 3/19 & 20**

Size limitations No larger than 7.5"w x 6.5"h x 5"d
Aesthetically pleasing
See Video tutorial for a 20 point example



- 4 Universal pen & pencil nooks
- Calculator slot
- Cell Phone slot with charging access
- Loose change & paper clip area
- USB Key drive bin
- 2 universal small item hooks (earbuds, hair ties)



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1/11/18

Hw in G.C. due 1/12

I have your chap 2 grades. See G.C. for point recovery.

D.N.- Get laptop log in, open Chrome & Tinkercad, place laptop lid to half closed. Then have pencil and paper ready for notes.

Voc- Design brief has all the information a designer needs to understand the problem.

- Tinkercad tutorials checked 1/8
- # Cube checked 1/12-15
- Desk Organizer checked 1/20

Resubmits can be done next class & up until 1/25

Resubs must be done in full for tutorials

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1/16/18

Hw in G.C. due 1/12 P1B- 50% P2B- 5%

Chap 2 grades will be posted this week in I.C.

D.N.- Get laptop log in, open Chrome & Tinkercad, create new design titled Desk Organizer, place laptop lid to half closed. Quiet & listening.

- Tinkercad tutorials checked 1/8
- **# Cube checked 1/12-15**
- Submit Snowperson due 1/22
- Desk Organizer checked 1/20 Due 1/25

**Tinkercad Number Cube & Snowman must
be submitted via Google Classroom**

Resubmits can be done after the lesson & up until 1/25

You can only resubmit Tinker Tutorials once

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1/18/18

Chap 2 grades will be posted this week in I.C.

D.N.- Get laptop log in, open Chrome & Tinkercad, open Desk Organizer, place laptop lid to half closed. Quiet & listening.

- Tinkercad tutorials checked 1/8 Rechecks next week
- **# Cube checked 1/12-15**
- Submit Snowperson due 1/22
- Desk Organizer checked 1/20 Due 1/25

**Tinkercad Number Cube & Snowman must
be submitted via Google Classroom**

Resubmits can be done after the lesson & up until 1/25

You can only resubmit Tinker Tutorials once

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1/22/18

Work is due in G.C. Bring in ear buds

Login, Tinkercad, GC close laptop, put info. below in your notes

What are the 6 steps of the design process?

1. Identify the need
2. Gather Information
3. Develop Alternative Solutions
4. Select the best solution
5. Implement solution
6. Evaluate solution

Extra help Tuesday and Wednesday PM

- Tinkercad tutorials checked 1/8 Rechecks next week
- **# Cube checked 1/12-15**
- Submit Snowperson due 1/22
- Desk Organizer checked 1/20 Due 1/25



PolleyTechnical.com/cad.html

1/23/18

Work is due in G.C. Bring in ear buds

Do Now- Login, Tinkercad, GC close laptop,

What are the 6 steps of the design process?

What step are we in?

Extra help Tuesday and Wednesday PM

- Tinkercad tutorials checked 1/8 Rechecks next week
- **# Cube checked 1/12-15**
- Submit Snowperson due 1/22
- Desk Organizer checked 1/20 Due 1/25

PolleyTechnical.com/cad.html

1/24/18

ALL Work is due in G.C. Bring in ear buds

Login, Tinkercad, Finish your work .

WH Extra help Tuesday and Wednesday PM

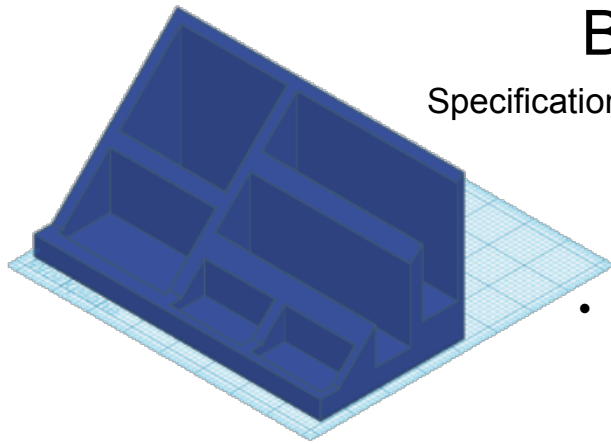
Go to the website above to look for requirements/rubric

- Tinkercad tutorials checked 1/8 Rechecks next week
- **# Cube checked 1/12-15**
- Submit Snowperson due 1/22
- Desk Organizer checked 1/20 Due 1/25⁶

Desk Organizer

for full 30 pts. share the desk organizer we created as a class (26 pts. if correct) then share a modified copy of that desk organizer or share one you have created.

CW Extra help Thursday and Friday PM

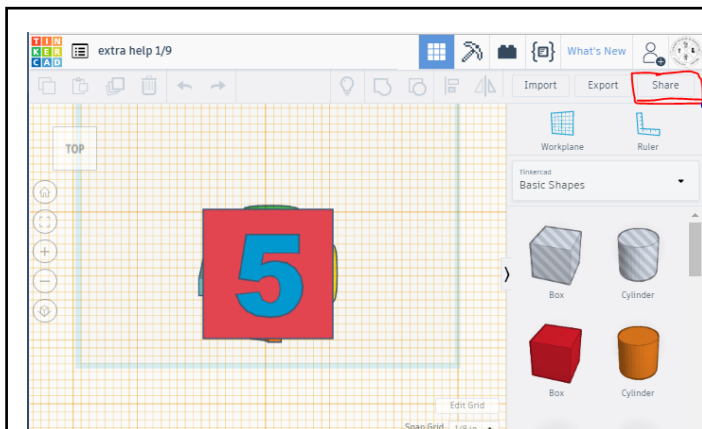


Basic Desk Organizer

Specifications can be found at polleytechnical.com/cad.html

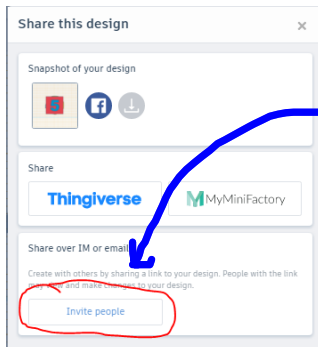
Simple wedge 4"h x 4"d x 8"w

- Edit grid & bed size
 - > Inches
 - > 8.5" x 8.5"
- Switch to 1/32
- Wedge

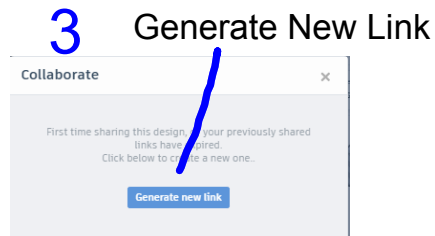


When you are finished with the number cube share it through Google Classroom.

1 Have the design open click the share button in the right right of the screen.



2 Then click share with people.







3 Generate New Link

Collaborate

Share this link over IM or Email
People with this link may view and make changes to your design.
<https://www.tinkercad.com/things/86iol4ByidG~> **Copy**

About 336 hours till the link expires. [Generate new link](#)

4 Copy Link

In Google Classroom open the assignment click on the link button and paste your link by clicking pressing Command + V

17 WH Tech / ...
1300.7 P4A

STREAM STUDENTS ABOUT

For 10 classes ▾ All stu

Title

Number Cube

Instructions (optional)

Share the link in this assignn

Due Jan 15, 11:59 PM ▾

Add link

Link

<https://www.tinkercad.com/>

CANCEL ADD LINK

randomGroups

Nivea
Dylan
Serena

Sara
Zach
Anthony

P1A

