

# Table Design

Day 2

**Built-in mouse pad** **Electrical outlets** **drawers** Chalk board surface Work, eat, play  
Computer under desk **ORGANIZE** Tool storage Creative work surface White board surface  
Heater/ac Working space **Lighting** Printer  
Features, Criteria &  
Functions from  
Yesterday **Printer** Seat multiple people  
Work station Sized for a chair **FOOT RESTS** durable  
Desk space (under) Electronics tools **Built in vice** clipboards  
Ping-Pong Table Extendable Double monitors  
Optimize for class **Wireless charger** Compactable Monitor space  
Conserves space Multiple purposes **Hook for bags** Writing space Collaboration space **Comfortable**

# What We're doing Today – Selecting Designs

- Phase I – Individual Design
- Phase II – More Individual Design!
- Phase III – Join Forces with your Neighbors
- Phase IV – Final Group Design
- Phase V – Materials List
- Phase VI – Open House & Critique Sheet
- Phase VII -- Selection

# Phase I – Individual Design

- Individually, design a table/desk which you would like to have in this classroom
  - Think big & be creative! At this phase, don't be held back by what you think is or isn't possible to make
  - Create a sketch and include relevant dimensions
    - Height, width, etc.

# Phase II – More individual design!

- Design a **completely** different table than the one you just drew
- Repeat this a 3<sup>rd</sup> and 4<sup>th</sup> (and 5<sup>th</sup> and 6<sup>th</sup>...) time if you wish. When it comes to innovation, studies show that good ideas comes more often from quantity over quality

# Phase III – Join Forces with your Neighbors

- Get up and walk around. Compare your table design to others.
- Think about the strengths/weaknesses of other designs
- There is no “stealing” ideas. We’re all on the same team and it is not a competition
- Join forces with others and create “final” table design which you would like to propose
  - Groups can be from 1-23 people
- PERSPECTIVE: What we are working to is to...
  - Make more detailed designs with material needs for ~5-12 tables
  - Have an open house where we critique & select ~5 of these tables to build

# Phase IV – Final Group Table Design Sketch

- Create one final sketch for your group's table design
  - I'll be submitting pictures of these with my grant write up, so put them on a clean piece of paper
  - Have a name for your proposal (this name isn't a commitment, just so we have something to call it). Table #1 or Table #87 is a perfectly fine name

# Phase V – Materials List

- Create an exhaustive and specific list of material needs for your group's table

## Some common materials to consider

### Wood

- Wood strips
  - Specify size (2x4, 1x4, 1x2, 1x6, etc)
  - Specify Length (6', 8', 10')
  - Specify quantity
- Plywood/flat sheets
  - Specify thickness (11/32", 3/4", etc)
  - Comes in 4'x8' sheets
  - Specify quantity of sheets needed

### Hardware

- Screws
  - Specify length (2", 3", etc)
  - Specify quantity (comes in boxes of ~100)
- Bolts
  - Specify length (2", 3", etc) & thread gauge (#6, #8, 1/4", etc.)
- Nuts, washers, lock washers
- Glue (wood glue, metal glue)



# More on Materials

## Wood

- Wood strips
  - Specify size (2x4, 1x4, 1x2, 1x6, etc)
  - Specify Length (6', 8', 10')
  - Specify quantity
- Plywood/flat sheets
  - Specify thickness (11/32", 3/4", etc)
  - Comes in 4'x8' sheets
  - Specify quantity of sheets needed

## Finishing

- Stain
  - Color (Early American!)
- Paint
  - Specify color(s)
- Specify square feet needed

## Hardware

- Screws
  - Specify length (2", 3", etc)
  - Specify quantity
- Bolts
  - Specify length (2", 3", etc) & thread gauge (#6, #8, 1/4", etc.)
- Nuts, washers, lock washers
- Glue (wood glue, metal glue)

## Other Things To Consider

- Do you need metal?
- Do you want shelving materials? Drawers?
- Are there electrical needs?
- Anything else?
- Look at Home Depot's, Amazon's, or McMaster's websites

# Phase VI – Open House

1. Each group will briefly explain their table.
  2. Investigate the other table designs and fill out the critique sheet for each table
  3. Turn in your critique sheet and then we will select which tables we wish to build
- Note: this is not a popularity contest or a democracy. I value genuine and thorough evaluations over quantity of praise