

✓
CHECK APPROVAL OF

REPORT PARTNER ↓

1. SAFETY
TEST SCORES
PERSONAL PROJECT PLANNING
NAME:

2 MAN
IDERS

REALIZED
BY REMAIN
CONSTRAINTS

RESEARCH
FUND

BOARD
FEED
WORKSHEET

1st BOUND
MARK RICE

2ND BOUND
MARK RICE
T. KAMARAKIS

ROUGH
ASSEMBLY
WEB

PARTS
LISTED
& LABELED

DETAIL
DRAWING
OF EVERY
PART

CUT
LIST

BILL OF
MATERIALS

STEP BY
STEP PROCEDURE

COMPLETELY
COMPLETE
THIS BINDER
WHEN COMPLETING.

BINDER SUBMISSION COSTS
10 POINTS EACH.

NO SHOP USE UNTIL
COMPLETED & PAYMENT MADE
FOR MATERIALS.

I

MR. BRUBENCHER

APPROVE

Student

TO

example:
Sally Smith
Prof's spouse
Lack of resources
Living abroad

PURSUED COMPLETION OF PLANNED PROJECT AND TO
JOIN THE SHOP USE STUDENT POPULATION FOR THE
DURATION OF THIS PROJECT & UNTIL I PULL THE PLUG FOR
DISCUSSED UPON REASONS. 2

CONSIDER OPTIONS

SET A TIMER FOR TWO MINUTES. ASK YOURSELF
IF I COULD BUILD ANYTHING, MAKE ANYTHING
PRODUCE ANYTHING WHAT
WOULD IT BE?

WRITE EVERYTHING THAT COMES TO MIND. DON'T
WORRY ABOUT TIME, MATERIAL, \$, ABILITY. JUST WRITE.

1. THINKING ABOUT ACTIVITY, ~~WRITE~~ THE FOUR MOST REALISTIC OPTIONS FROM THE SHEET BEFORE, #1 BEING THE MOST MOST REALIST.

#4 BEING THE LEAST MOST REALISTIC.

- 1.
- 2.
- 3.
- 4

2. THINKING ABOUT ONLY TIME, WRITE THE MOST REALISTIC ⁴ OPTIONS FROM THE SHEET BEFORE. #1 BEING THE MOST REALISTIC. #4 BEING THE LEAST MOST REALISTIC.

- 1.
- 2.
- 3.
- 4

3. THINKING ABOUT MATERIAL & WORK ENVIRONMENT WRITE THE MOST FOUR MOST REALISTIC OPTIONS #1 BEING THE MOST MOST REALISTIC. #4 BEING THE LEAST MOST REALISTIC.

- 1.
- 2.
- 3.
- 4

4. THINKING ABOUT \$ WRITE THE FOUR MOST REALISTIC #1 BEING THE MOST REALISTIC. #4 BEING THE LEAST MOST REALISTIC.

- 1.
- 2.
- 3.
- 4

My Assigned Support Partner is _____

Discuss Your Ideas With Your Support Partner.

Support Partner: The person you will use for two person operations, or when problem solving to discuss solutions.

Still an individual ^{for} ~~the~~ ^{the} team project.

Final Project Decision _____

Barber of Approval _____

PLACE ALL BENCHMARKS
BEHIND THIS PAGE

WEBSITE NAME _____

NAME OF POST _____

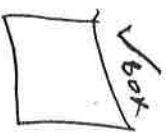
ARE THERE COMMENTS? _____

OF SHARES _____
(if available)

AUTHOR _____

PUBLISHED DATE _____

LINK INCLUDED ON LIVE GOOGLE DOC LIST WITH YOUTUBE BENCHMARKS AND SHARED w/ B ✓



Web page includes:

- Wood MATERIAL LIST
- STEP BY STEP PROCEDURES
 - VALUE
 - GENERAL
 - SPECIFIC
 - OVERLY DETAILED

- EXPANDED VIEWS (x)
- INDIVIDUAL PART DRAWINGS
- CUTTING DIAGRAM
- CUT LIST
- PHOTOGRAPHY

HARDWARE LIST

- ISOMETRIC (or 3D views)
- ORTHOGRAPHIC PROJECTION VIEWS
- PRINTED OUT AND PUT IN BINDER

FIGURE COST OF BENCHMARK,
SHOW YOUR WORK, AND TITLE WORK w/
BENCHMARK NAME & TYPE,

BOOK NAME _____

PUBLISHER _____

AUTHOR _____

COPYRIGHT DATE _____

PAGE MARKED FOR B[✓] TO MAKE COPIES

PLANS INCLUDE:

WOOD MATERIAL LIST

EXPLODED VIEW(S)

STEP BY STEP PROCEDURES

INDIVIDUAL PART DRAWINGS

- VALUE
- GENERAL STEPS
- SPECIFIC DETAILS
- OVERLY DETAILED

CUTTING DIAGRAM

HARDWARE LIST

CUT LIST

ISOMETRIC (30 views)

PHOTOGRAPHY

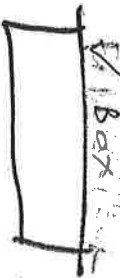
ORTHOGRAPHIC PROJECTION VIEWS

COPIES MADE AND IN BINDER

ON A SEPERATE PAPER, LABEL BENCHMARK AND INCLUDE COST. SHOW WORK. PLACE IN BINDER NEXT TO LOG.

YouTube Benchmark Form

- 1) YouTube Video Title _____
 - 2) Name of YouTuber _____
 - 3) _____ Views _____ Likes _____ Dislikes _____
 - 4) Published Date _____
 - 5) Most useful comment in comment section: _____
-
-
-

- 2) Google Doc. w/ LIVE LIST OF ^{YouTube} BENCHMARKS
SHARED w/ BU 

ON A Separate paper, Label
Benchmark & include cost. Show
work! Place in binder next to log.

MAGAZINE BENCHMARK LOG.

MAGAZINE NAME _____

VOLUME _____

No. _____

MAGAZINE
DATE _____

PAGE MARKED FOR B✓ TO MAKE COPIES.

ARTICLE TITLE _____

AUTHOR _____

ARTICLE HAS: (YES OR NO)

MATERIAL LIST STEP BY STEP PROCEDURES CUTTING DIAGRAM

HARDWARE LIST

EXPLODED VIEW INDIVIDUAL PART DRAWING

ISOMETRIC (OR 3D) VIEWS ORTHOGRAPHIC PROJECTION VIEW

CUT LIST PHOTOGRAPHY

COPIES MADE & IN BINDER

Total benchmark on a separate
sheet of paper and checklists
G22. Show work. Include in
Binder with log.

PLACE ALL

BENCHMARK

IN FRONT OF THIS

PAGE

Benchmarks should

be useful to you

Do Not just find the

first thing that comes
up and be prepared to
^{explains} how the benchmark

is useful,

This may require a level

of creativity on

^{insert} ^{story of finding} ^{from irrelevant}

That's the point! ^{inspiration} ^{topic} u

IDEATE

VERB: FORM AN IDEA OR IMAGINE OR CONCEIVE

Now THAT YOU HAVE A DATABASE OF IDEAS THROUGH BENCHMARKING,
GENERATE MULTIPLE VARIATIONS OF THOSE IDEAS.

USE THUMBNAIL SKETCHING.

STOP! DON'T PANIC ~ "I CAN'T DRAW, I CAN'T SKETCH ~~OR~~... SHUT UP
AND Dooble... OK? OK!

Now THAT WE KNOW YOU ALREADY GOING TO BE WHINYPANTS ABOUT
DRAWING...

A THUMBNAIL SKETCH: A REDUCED SIZED SKETCH TO HELP WITH
ORGANIZING & RECOGNIZING IDEAS.

YOU'RE GOING TO DO TEN OF THEM.

EACH ONE SHOULD VARY SLIGHTLY ~~OR~~ DRASTICALLY
FROM THE LAST ONE.

WAYS TO THINK OF VARIANCE:

WHAT WOULD MY DAD DO... (MOM, SISTER, TEACHER, ETC.)?

WHAT WOULD IT BE IN ITS SIMPLIST FORM?

WHAT WOULD IT BE IN ITS MOST RADICAL FORM?

WHAT WOULD IT BE IN ITS WORK IF I TURNED IT SIDEWAYS?

HOW COULD I GET IT TO WORK AS POSSIBLE?

(UPSIDE DOWN, ENDSIDE OUT, ETC.)

WHAT IF I TRIED TO MAKE IT AS LIGHTWEIGHT AS POSSIBLE?

WHAT IF I TRIED TO MAKE IT AS HEAVY AS POSSIBLE?

(LIBRARY, REST STOP, CHURCH... ETC.)

IF I WAS DESIGNING IT FOR A CASINO

WHAT WOULD IT LOOK LIKE?

Now TURN THIS PAGE OVER & Doodle 10 IDEAS!

IDEATE!

INTRODUCING CONSTRAINTS → HOW WE WIN OR LOSE BROTHERS STORY

IMAGINE A STRANGER, OR SOMEONE YOU DON'T KNOW WELL HAS ASKED YOU TO GO BUY THEM SOME MILK. SIMPLE ENOUGH.

UNTIL YOU GET TO THE STORE AND YOU REALIZE YOU DON'T KNOW HOW MUCH MILK THEY WANT. YOU CAN BUY A GALLON, 1/2 GALLON, QUART, OR A PINT. YOU'RE NOT SURE IF THEY NEED IT FOR A ONE-TIME RECIPE THEY ARE TRYING OUT OR FOR THEIR "I CAN'T COOK SO I EAT CEREAL THREE TIMES A DAY" DIET PLAN. YOU TAKE YOUR BEST GUESS AT THE SIZE BY THINKING, "WELL, MOM ALWAYS GOT 1/2 GALLON, SO I'LL JUST GET A 1/2 GALLON." (BENCHMARKING) YOU LOOK AT ALL THE 1/2 GALLON JUGS. AND REALIZE YOUR NEW DILEMMA.

WHAT TYPE?

THERE'S 2%, 1%, SKIM, VITAMIN D, WHOLE FAT FREE, AND YOU'RE NOT EVEN SURE IF THAT "OTHER" DIDN'T MEAN CHOCOLATE OR STRAWBERRY AT THIS POINT.

YOU PICK UP A 1/2 GALLON OF 1%, AFTER SCRATCHING YOUR HEAD FOR 25 MINUTES UNDETERMINING HOW A SIMPLE FAVOR GOT SO COMPLEX. WHO KNOWS IF YOU'RE RIGHT OR NOT?

- OBVIOUSLY THERE IS SOME COMMUNICATION MISSING BUT MORE SPECIFICALLY COMMUNICATION OF CONSTRAINTS.

NOW MANY PEOPLE VIEW CONSTRAINTS AS A NEGATIVE, BUT AS WE SAW IN THE EXAMPLE ABOVE, LACK OF CONSTRAINTS CAN REALLY HINDER SUCCESS.

Hopefully you have some idea of
how you WANT your PROJECT TO
LOOK BY NOW. ROUGH SKETCH IT
ISOMETRICALLY* JUST CLEAR ENOUGH
THAT PARTS CAN BE RECOGNIZED.
EXPECTATIONS: ROUGH DIMENSIONS □
Visually Literate □

Ask for ISOMETRIC Grid PAPER IF NECESSARY

CAN YOUR GROUP PREPARE A LIST OF PARTS
 TO REPRESENT YOUR PARTS. MAKE A
 LIST OF ALL PARTS BELOW. MODIFY YOUR
 SKETCH IF NEEDED.

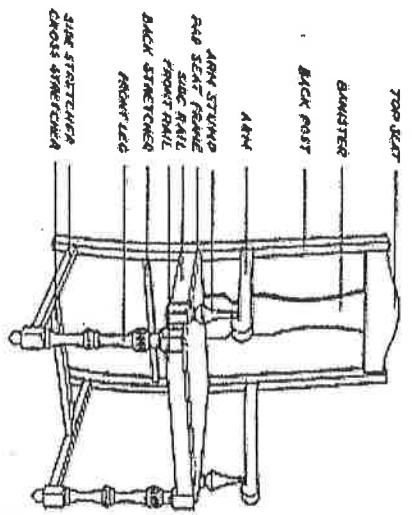
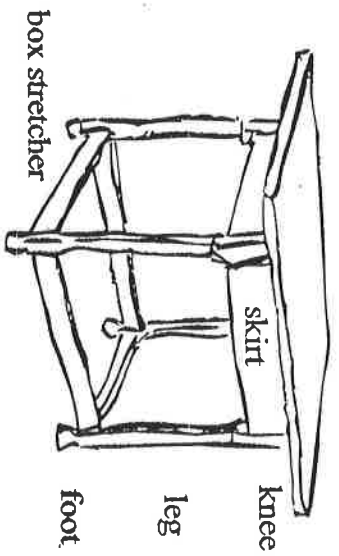
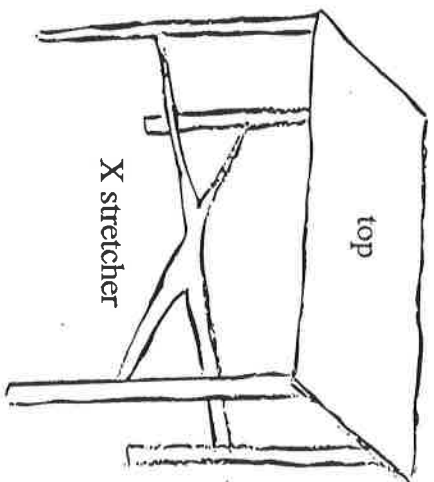
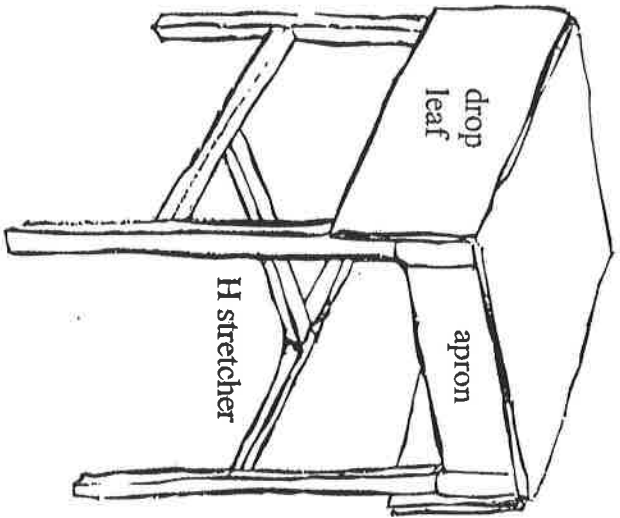
A LEADER IS AN ARROW WITH A CIRCLE YOU HAVE A BALLOON

PART NAME	DIMENSIONS (L ^W H)	MATERIAL	COST
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A

B

COMMON PART NAMES



Example Furniture Part and Sub-assembly Names

Personal Forest Constraints

RAMPS: USE SITE MATERIALS

& TOOLS →

No HARDWARE SHOWING

(BARRIL BP HINGES OKAY) →
↳ 2ND YEAR STUDENTS ONLY

1ST YEAR → NO HINGES

1ST YEAR STUDENTS: 15 BF

2ND YEAR STUDENTS: 25 BF

PROTOTYPE PE

BUILD A PROTOTYPE TO A
SALE.

SHOP USE TO BUILD PROTOTYPE
WILL COST _____ POINTS
PER TRIP.

AS PART OF MY PROJECT

MR. BARBERHECK IS REQUIRING

THAT I COME UP WITH

A PRACTICE PLAN FOR THE

FOLLOWING SKILLS:

MAKE A BRIDGE, DOVE, PAK 1...

DAY BY DAY, USING CLEAR STEPS.

INCLUDE DAY 1, 2, 3, 4...

Don't plan for wood finishing.

Your support
Partner may have
to complete the
steps on your absence.
You and your partner
will both want clarity

Bojic: I'm falling behind
Pac: ON pace
Bridic: I'm a step ahead
ahead than planned

NOT CLEAR: I will work on project,
STILL NOT CLEAR: I can work on birdhouse.

BETTER: I will cut parts for birdhouse.
Better yet: I will cut the four walls, floor and
roof of bird house.

BEST: I will cut the following parts:

WALL 4H: 3"x5"
Roof 12: 4"x5"
By ripping a 3" wide x 4" wide piece of
the table saw, and then cutting it to width
at the miter saw.