

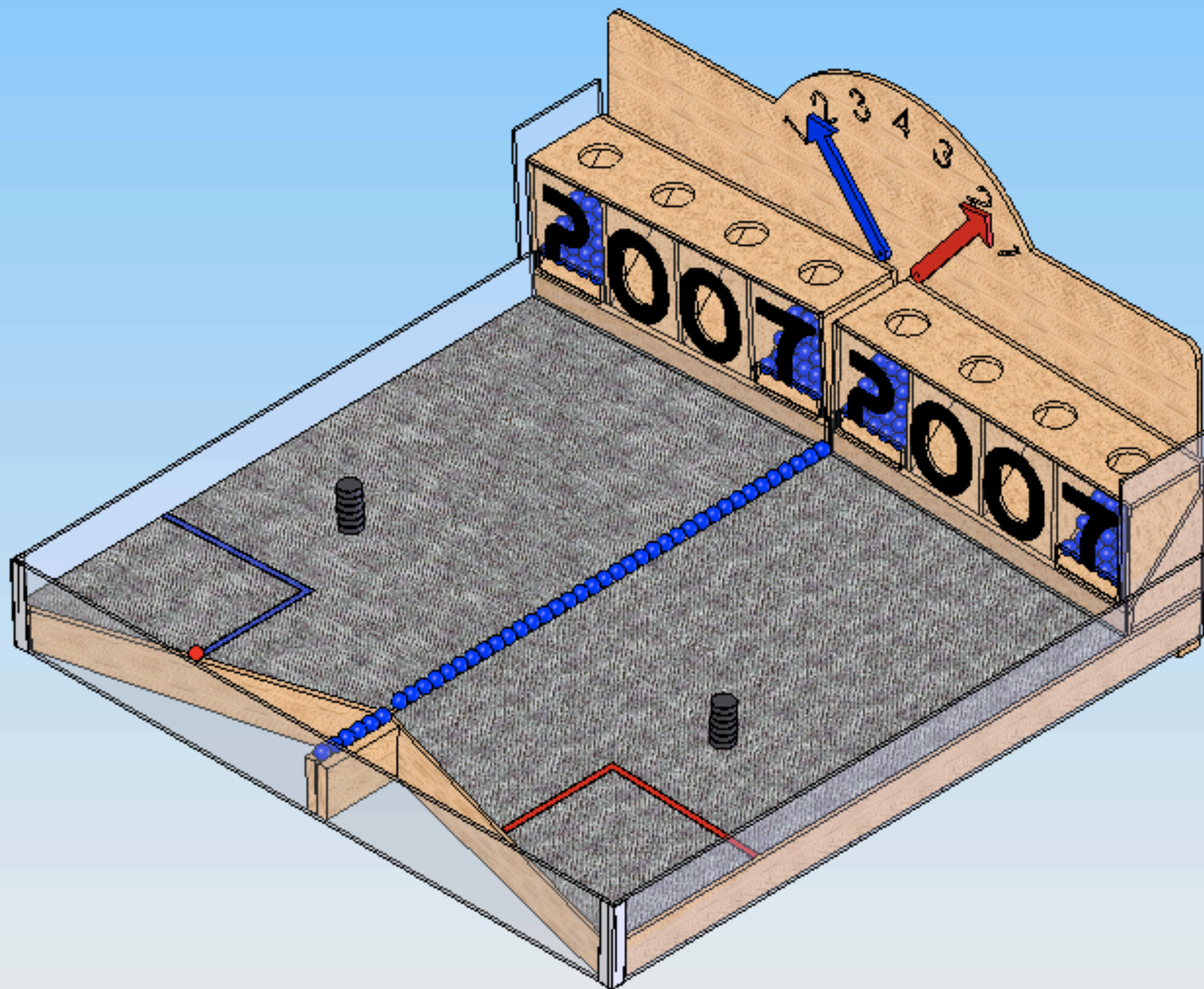
Concept Selection

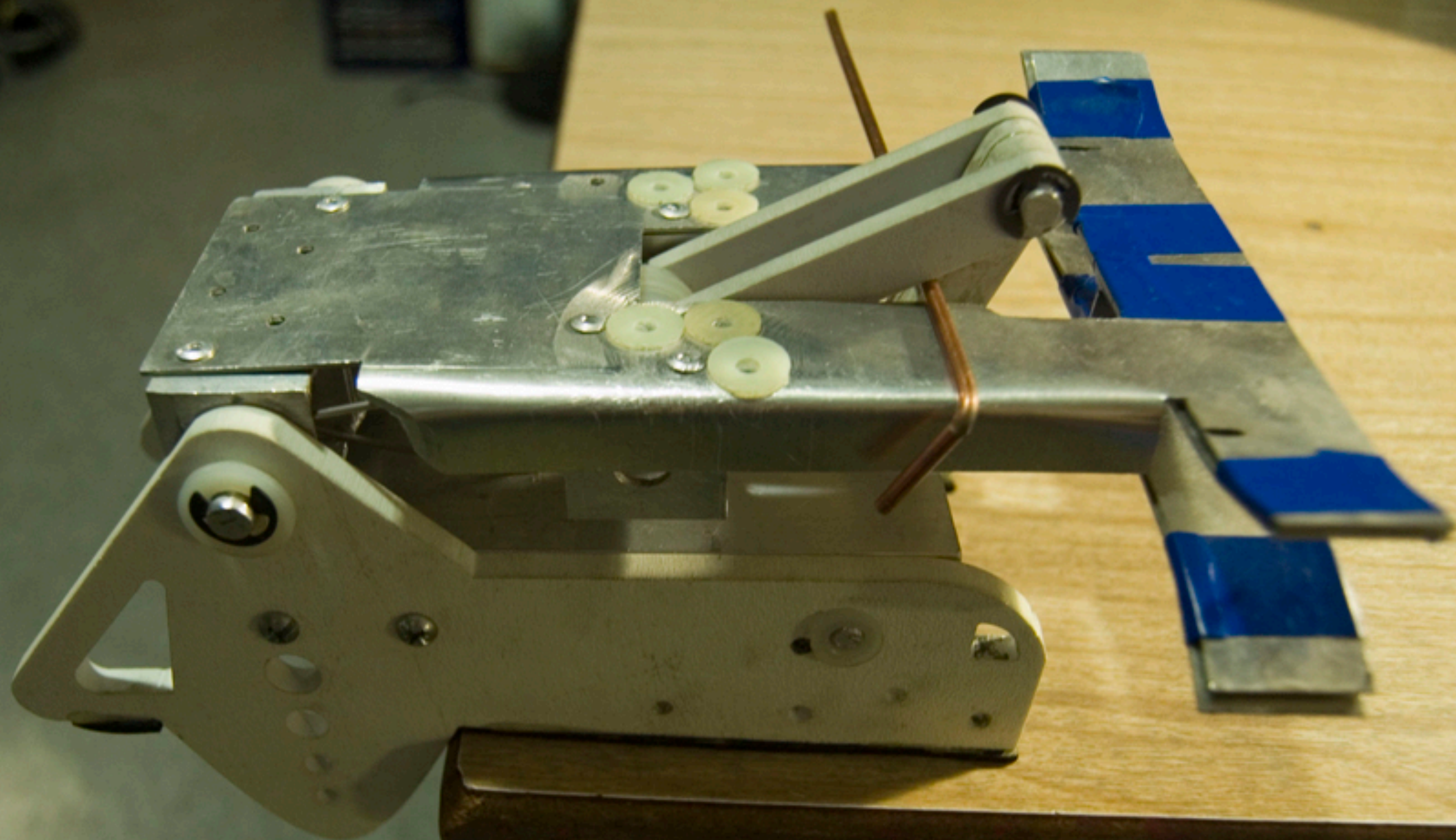
Digital Fabrication

Build in Progress Documentation

How we are checking (and grading) your work

Most important time to document is right now!







Exercise: Capture

Photograph your composite characters and your brainstorming from yesterday and add to BiP
Final Project Page

(Add description later)

Iterative Interaction Design

“Shaping our every day life through **digital artifacts** – for work, for play, for entertainment”



Iterative Interaction Design

Does your design sense activity in the space?
(input)

Does it respond / give feedback to how it's used?
(outputs)

Can it monitor how it is being used?
(controls interface)

Exercise: Share Additional Ideas

Share additional ideas from yesterday's assignment and add them to your team's board

7 minutes

Exercise: Revote

Each person still gets 3 votes. If you want, you can move any of your three votes to a newly shared idea.

3 minutes

Exercise: Revote



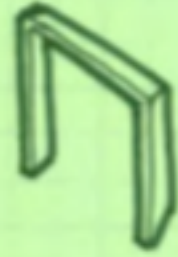

Pick top 5 ideas and remove all other ideas from the board

Pugh Chart

Multi-dimensional pros and cons list

Used to compare your selected ideas against a set of criteria

Pugh Chart

	NAIL 	RING SHANK 	STAPLE 	SCREW 
RATE	S	S	+	-
COST	S	-	+	-
HOLDING	S	+	-	++
EFFORT	S	S	+	-

Pugh Chart

Selecting Criteria

Practical: Feasibility, Cost, etc.

Visceral: Team excitement, novel

Pugh Chart

	Ice Cream	Cookie	Chips
Calories		0	
Deliciousness		0	
Weather- Appropriateness		0	
Messiness		0	
Total		0	

Pugh Chart

	Ice Cream	Cookie	Chips
Calories	+	0	0
Deliciousness	+	0	0
Weather- Appropriateness	--	0	0
Messiness	-	0	-
Total	-	0	-

Pugh Chart

Total is meant to help compare results, *not to be the ultimate decider*

Can help avoid making decision based on gut feeling, opinion of dominant team member, etc.

Exercise: Use a Pugh Chart to evaluate

Create criteria to evaluate your top 5 concepts
and generate a Pugh Chart to compare them

15 minutes

Pugh Chart: Combine & Improve

	Ice Cream	Cookie	Chips
Calories	+	0	0
Deliciousness	+	0	0
Weather- Appropriateness	--	0	0
Messiness	-	0	-
Total	-	0	-




Pugh Chart: Combine & Improve

	Ice Cream	Cookie	Chips
Calories	+	0	0
Deliciousness	+	0	0
Weather- Appropriateness	--	0	0
Messiness	-	0	-
Total	-	0	-




Pugh Chart: Combine & Improve

	Ice Cream	Cookie	Chips
Calories	+	0	0
Deliciousness	+	0	0
Weather- Appropriateness	--	0	0
Total	-	0	-

Pugh Chart: Combine & Improve

	Ice Cream	Cookie	Chips
 +  = 	-	0	-
Total			

Pugh Chart: Combine & Improve

	Ice Cream	Cookie	Chips
 +  = 			
Total	-	0	-

Exercise: Analyze Pugh Chart

Combine / improve concepts

- Can you combine the best features of any two ideas?
- Is there one aspect of a single idea that's leading to a lower score? How might you adjust the idea?

Use the Pugh Chart to pick 3 ideas to move forward with

10 minutes

Assignment

Each person on the team should pick one of the three ideas to post on Build in Progress with a complete description and sketch

Digital Fabrication

Digital Fabrication



3D Printing



Laser Cutting

3D Printing



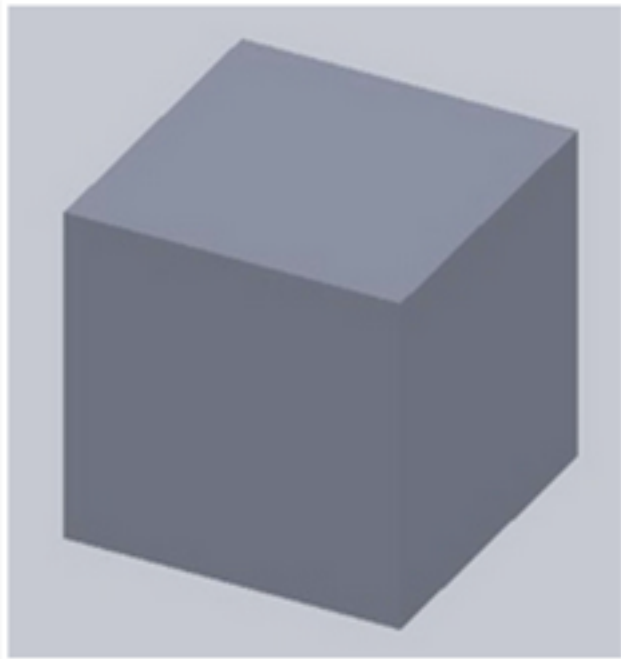

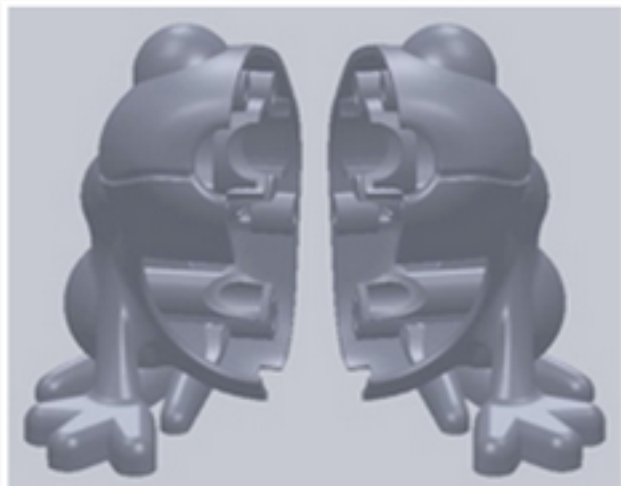
Objet 3D Printer
PolyJet

UV-cured liquid polymer (acrylic based)

\$0.45 / g

File Format: STL

3D Printing

Part	Dimensions (w x l x h)	Model/ Support material (g)	Print Time	Our Cost
	1 x 1 x 1	30 / 3	2h 50m	\$14.85
	3.6 x 1.7 x 1.2	27 / 58	3h 35m	\$38.25
	9.8 x 4.4 x 1.3	556 / 1189	21h 43m	\$785.25

3D Printing

If your group plans to 3D print for LP, you must submit and get your job approved by a TA by 7PM ***tonight***

Digital Fabrication



Laser Cutting