

# Gifts and Games

'cause giving is better than getting right?

## Problem statement

Just in time for Mother's or Father's day... You just want to make something to give to a special person in your life. What do you think they'd want or need? What would they cherish, even if it's just made in PLA?

## Parameters

- It should be aesthetically appealing.
- It should be somehow personalized for the recipient

## Brainstorm and Research

- Pick your recipient. You don't have to tell me who it is, but have that person in your mind as you do this exercise.
- Brainstorm a list of things that you think your recipient might want or need down. Write down at least 5 things but try to get 10. (Note: not all of the 5 can be from this list below. At least 1/2 of those listed on your page should be original).
  - Phone cases
  - Toys like the perfect Lego piece or polyhedral dice, or even a cat toy (maybe your recipient is an animal, after all)
  - Sculpture/piece of art
  - Jewellery
  - Name Plate
  - Keychains with
    - a sport on it (crew boat, lacross, softball, Frisbee)
    - a saying
    - a name
  - Name plates
- List off some of the pros and cons for each one of these. Which of them are the most do-able in a short period of time? Which would you want to do the most? Which do you think your recipient might like the most?
- This is also a good time to hand draw/sketch some of your final contenders. Include any sketches you have done in your final write up.

## Select the best one

Pick one of the ideas to implement, under budget.

## Develop the idea/prototype/finalize idea

Develop your design further by creating a sketch (if you haven't already), then a model of it in the 3D modeling package of your choice. Post your final modeling file as well. .

## Test/evaluate solution

If you do any test prints, make sure to take pictures and post those as well. .

## Redesign and retest

Only if necessary. Remember to post the results your results...

## Presentation

Make sure your final prints (if any) are posted. Present the gift to your recipient. What did they think? Do you think they'll use it? How much would it cost to print at any or all of the local hacker spaces?

### **Milestones**

- a. Your brainstormed items and your pros/cons, and your final choice is due
- b. You need to have your print **DONE** and uploaded to the drop box. +5 "points" if you get it done by this day. +3 if you get it done the day after. 0 if you get it done on the day the final project is due. -5 points if you get it done after.
- c. Your final project reflection is due.

### **Grading**

TBD, but out of a 4 point scale