Casting
Semester workflow

- **Three ideas presentation**
  - March 6
  - 3 ideas per team

- **Sketch model review**
  - March 20-22
  - 2 concepts, 4 models

- **Mockup Review**
  - April 17
  - 1 concept, 2 models

- **Final PLAYsentations**
  - May 14
  - 1 final prototype
Team Consultations with David

Today during lecture

Wednesday during lecture

Thursday during lab

Friday during lab
Today!

Casting (3-370)

Work time! (PDL)
Simplify!
Refine!
Works-Like

Looks-Like
Works-Like & Looks-Like

Final Prototype!
Playsentations!
Plastics
Thermoplastics vs. Thermosets

THERMO (heat) PLASTIC (deform)

THERMO (heat) SET (permanent)
Thermoplastics vs. Thermosets
Compare ABS, PVC, PP, PE

ABS
- Hard
- Colorful
- Strong

PVC
- Dense
- Flexible*

PP
- No Fatigue
- Tough
- Shiny Surface

PE
- Flexible
- Food/Chemical Safe
- Waxy

Nicest Finish
- $$$$$

Worst Finish
- $
Compare PC, PET, PMMA, PS

PC
“bullet-proof” tough

PET
low-permeability tough

Acrylic
glass like brittle strong

PS
tin sound brittle light weight

Tough
$$$$

Brittle
$

$
Thermoplastics vs. Thermosets
Quiz!

1. What is your name?

2. Name as many of the thermoplastics we talked about as you can (9 total!)

3. Name as many plastic manufacturing processes as you can

4. Name a fun fact about plastics!
and casting!
and casting!