Casting
Upcoming!

Lab open Friday from 1-5pm, Sunday 1-5pm

Silkscreening tutorial on Sunday, May 5

Order shirts!
Lab this week!

plan, design, buy things
update bill of materials
be clean & clean up
be on time!

not just materials already in PDL
Team Consultations with David

Monday's lecture

Today 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

Stiff
- $$$$$
- Nicest Finish

Flexible
- $ Flexible
- 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!