Casting
designy
Upcoming!

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

Silkscreening tutorial on Sunday, May 6

Order shirts!
Today!

Casting (3-370)

Work time! (PDL)
Works-Like Effectiveness

- Goose
- Squid
- Ostrich
- Koala
- Meerkat
- Hedgehog
- Lobster
- Crocodile
- Narwhal
- Llama
- Moose
- Tiger
- Panda
- T-Rex
- Camel
- Hippo
Looks-Like Effectiveness

- Ostrich
- Moose
- Meerkat
- Lobster
- Llama
- Koala
- Narwhal
- Goose
- Squid
- T-Rex
- Tiger
- Hedgehog
- Camel
- Panda
- Hippo
- Crocodile
Eindhoven Prototype Works-Like
Sourced vs Designed

Gears?

Enclosures (fabric, plastic, etc.)?
Semester workflow

Three ideas presentation
March 7
3 ideas per team

Sketch model review
March 21-23
1 concept per team

Mockup Review
April 18

Final PLAYsentations
May 15
1 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

$

Worst Finish
Compare PC, PET, PMMA, PS

- **PC**: “bullet-proof” tough
- **PET**: low-permeability tough
- **Acrylic**: glass like tough strong
- **PS**: tin sound brittle light weight

Tough $$$$$

Brittle $
Thermo-Plastic Forming

Extrusion
Injection Molding
Thermoforming
Blow Molding
Rotational Molding
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!
CASTING!