101 of sketching
Boston Children’s Museum
Visit
6:30 PM Friday
Brainstorm Assignment

- legible full-page sketches with idea name and your name
- redraw these 4+ ideas in design notebook

bring both sets to lab

More ideas leads to more creative ideas!
Team communication + slack today!
Drawing Kit

[Image of drawing kit items]
Sketching

Communication, not art!
Sketching
The language of idea generation

Ping-Pong Ball Blaster
A toy blaster that fires plastic ping-pong balls, stores several at once inside its shell, and automatically resets with each pull of the trigger. New balls are loaded via the port on the top, several can be loaded at a time. Pulling the trigger once fires a ball out of the front and after…
Why sketch clearly?

- clarity
- creativity

kudrowitz, wallace 2010
What’s the process?

Mental Models

Basic Skills (simple shapes)

3D Rules

Practice
Quiz!


   *use protective paper

2. Put your name on the back of the sketch
Mental Models and Sketches
step-by-step thought process

Architecture  Proportion  Detail
What's the process?

Mental Models

Basic Skills (simple shapes)

3D Rules

Practice
Uncertainty is Visible
The Basic Skills
lines, circles, ellipse
What's the process?

Mental Models

Basic Skills (simple shapes)

3D Rules

Practice
Rules: 3D with perspective!

1 Point

2 Point

3 Point
Rules: 3D with perspective!

1 Point  2 Point  3 Point
Rules: 3D with perspective!

1 Point

2 Point

3 Point
Rules: 3D with perspective!

1 Point

2 Point

3 Point

This Class
The Horizon or Eye Line

refrigerator
The Horizon or Eye Line
The Horizon or Eye Line
The Horizon or Eye Line Line

Vertical Lines are always vertical
Proportions
Proportions
The Cube
The Cube
The Cube
The Cube
The Cube
The Cube
The Cube
The Cube
The Cube
The Cube
The Cube
The Cube
The Cube
The Cube
The Cube
The Cube

Close Vanishing Points = High Distortion
Close Up Objects
Where are the Vanishing Points?
Close Up Objects
Where are the Vanishing Points?

Almost Parallel
The Cylinder
The Cylinder
The Cylinder

Horizon
The Cylinder

Horizon
The Cylinder
The Cylinder
The Cylinder

Horizon
Cylinder on Box
Cylinder on Box
Cylinder on Box
Cylinder on Box
Cylinder on Box
Cylinder on Box
Cube on a Cube
Cube on a Cube
Cube on a Cube
Cube on a Cube
Cube on a Cube
Cube on a Cube
Cube on a Cube
Cube on a Cube
Products of Basic Shapes
Start with physical models
Putting it Together
Logistics

Practice your basics

Try using perspective sketching for idea generation

Labs start tonight!

Bring drawings supplies to class again on Monday

Don’t forget about the Children’s Museum visit on Friday (6:30 PM)
Sketching!