**Introduction**

A house is what we call a home. What goes into your home? In other words, what does your home have it in that makes it work? This lab will test your three dimensional understanding of your house, as well as show you how to draw a blueprint.

**Learning Objectives**

* To construct a blueprint of your home or your dream home
* (optional) Use basic geometry to measure your home

**Materials:**

Paper

Pencil

Ruler

Eraser

**Experimental Procedure**

* **Part 1:** Construct your first floor of your home
	+ House must have 3-4 rooms, ½ bathroom
	+ Kitchen, dining room, living room, other
	+ Also draw exterior, (lawn, backyard, fountain in yard)
* **Part 2:** Construct your second floor
	+ Second floor must have 3-4 rooms, 1 bathroom
	+ Must have at least 1 bedroom

ALL ROOMS MUST HAVE AT LEAST 3 WINDOWS, UNLESS ROOM IS IN MIDDLE (bathroom is exempt from window rule)

**Alternate: Rancher alternative**

* Construct a home with 3-5 rooms and 1-2 bathrooms.
	+ Construct also a front yard and/or backyard

**Questions:**

1. Why did you arrange your house the way you did?
2. Did you have any issues or problems with the blueprint? How did you overcome those problems?
3. Why do homes have more than one room opposed to one big room? And how would you solve this issue?

**Summary of procedure**

* Write 3-5 sentences about why you designed your house this way. (convenience, ecological, handicap accessible etc)