



SEC 3 ARCHITECTURAL DESIGN: The Science of Building

Contact Mrs. Berner at bernera@loyola.ca

CYCLE	TOPIC	CONTENT	TASKS
Term 1	Why do Buildings Fall Down?	Forces and Stresses	<ul style="list-style-type: none"> Projects: 20% Microlabs: 30% Lego Studio: 50%
		Engineering principles	
		Lego Architectural studio	
Term 2	Architectural drafting	Lettering	<ul style="list-style-type: none"> Drafting: 100%
		Multiview	
		Elevation	
		Plan	
		Isometric View	
		One Point Perspective	
		Modular Home Design	
Term 3	Why Do Buildings Stand Up? Load-bearing walls and curtain walls	Post and Lintel buildings	<ul style="list-style-type: none"> Projects: 50% Microlabs: 20%
		Arches	
		Domes	
		Truss	
		Suspension / Tensile	
		Steel Frame	
	In-class Final Assignment: Why do buildings fall down?	Jury Evaluation	<ul style="list-style-type: none"> In-class final assignment: 30%

Loyola provides:

- Graph and isometric paper
- Architectural fine tip pens

Student provides:

- a binder or folder for all paperwork and drawings
- Lead pencils, pens and general supplies
- 30 cm ruler

Students must bring these materials to all classes

Extra Help: The Art Room will be open on Days 2, 4 and 6 at lunch time and Days 5 and 6 after school – BY APPOINTMENT ONLY.

Late Policy: Late projects may be submitted by the beginning of the class after they are due at a penalty of 20%. Projects submitted after that time shall receive a mark of zero.