



Virtual Learning

Designing a Small Space

Pt 4 of 4

Dimensions and Sections

May 21, 2020



Civil Engineering and Architecture
Mr. Windes, Mr. Leutzinger, Mr. Gant

Lesson: May 21, 2020

Objective/Learning Target:

Students will design a small space for a client utilizing skills learned from previous lessons.



Bell Ringer:

Review the ruler game and the previous lesson on architectural measurement

[The Ruler Game](#)

[Architectural Measuring](#)



Let's get started:

Over the next four lessons you are going to be designing a small space for a client of your choosing. This space should be a freestanding structure and not just a room in a larger structure. Think of something like a he/she-shed or a treehouse type of structure. You should follow the architectural design process that was discussed in previous lessons. Review the previous lesson covering architectural dimensioning by clicking the link below.

[Previous lesson - Architectural Dimensions](#)



Practice:

The final part of this project is going to consist of adding dimensions to your floor plan sketches and development of the wall, roof, and foundation structures of your new space.

1. Take your final floor plan sketch and add dimensions for every window, wall, and door in your design
2. Use the internet to research appropriate wall, roof, and foundation systems for your new building
3. Create a scale sketch of the structural system for your design including all systems you found in your internet research.

Dimensions are typically thought of as a plan view element but elevations and sections also require dimensions. Heights of roof eaves, and other architectural elements need to be located. Don't forget to indicate the slope of the roof on your elevations.



Additional Resources:

On the architectural design process:

[How to: Architectural Dimensioning - CAD](#)

[Dimensioning a Floor Plan](#)