

(30 pts) Approx. 3 days

The last part of our unit lets us do some building of different things. Architects and Civil Engineers spend a lot of time researching and designing their various projects, but eventually they often get to build computer models and physical models to illustrate their ideas. In this part of the unit we'll look at some specific architectural features and vocabulary before we build a simple physical model of your architectural style to help show what it looks like. Then, we'll shift gears and get a very brief introduction to a program called Revit that civil engineers and architects use to design 3D computer models of their buildings.

1. Watch the *Architectural Features* presentation and take a page of notes on the different architectural features discussed. Draw a few sketches in your notes for reference later, and identify which feature you like best.
2. **The Minotaur's Labyrinth Challenge:** As an architect, King Minos (from the island of Knossos in ancient Greece) has come to you to design a labyrinth that he can house his minotaur in. The design parameters from King Minos are listed below. Use Revit to design a labyrinth that meets the King's parameters.
  - Rectangular perimeter that is 100' x 100'
  - Only one doorway into the labyrinth
  - No windows anywhere in the labyrinth
  - Hallways of the labyrinth should always be between 4' and 8' in width
  - No curved walls
  - The labyrinth must be solvable, but difficult
  - You must designate a living space for the minotaur
  - Must have a floor under entire labyrinth (no holes)
  - No roof/ceiling
3. Have Mr. Benshoof confirm your completed labyrinth and save your labyrinth as a Revit file on your jump drive.

Part 3: Tasks	10-9 points	8-5 points	4-0 points
 Architectural Features Notes	+ You took a full page of notes on the different architectural features highlighted + Your notes include a few sketches of your favorite features	- Your notes are less than a page - Your notes only include sloppy sketches	- Your notes are significantly lacking - Your notes are missing - Your notes have no sketches
 Revit Labyrinth Design	+ You constructed a labyrinth in Revit that meets all requirements + Your file is saved on your jump drive	- You met most of the King's requirements - Your file is saved on your jump drive	- Your file is not saved on your jump drive - Your labyrinth is incomplete
 <b>Achievement</b>	+ Make your maze super cool and tough to solve while carefully following every parameter of the king's design!		

