Exercise duration: ~30 minutes

# Challenge exercise – Grading rubric

# Finish the model and conduct a carbon analysis

Criteria: Finish creating the model of the house. Link the upper-level floor plan drawing onto the upper level. Manually or automatically create the walls, and then add the doors and windows. Conduct a carbon analysis of a more detailed project model.

What to Submit:

* Direct your students to submit their design in a format that works well for you to review and critique. Here are some suggestions:
  + Share the design with your instructor through ACC.
  + Save the rvt file to a school submission dropbox.
  + Save the carbon analysis as a screen print to ACC or upload to a school submission dropbox.

**Grading rubric:**

Inspect the Revit model, use the wall schedule as per the figure below, referring to upstairs level only.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Criteria** | **100%** | **50%** | **25%** | **0%** |
| **Advanced** | **Proficient** | **Basic** | **Emerging** |
| **Exterior Walls 30 pts** | Length of Exterior wall between  29600 - 29700 | Length of Exterior wall between  29500 - 29800 | Length of Exterior wall between  29400 - 29900 | Length of Exterior wall between  29300 - 30000 |
| **Interior Walls**  **30 pts** | Length of Interior wall between  23400 - 23450 | Length of Interior wall  between  23300 -23550 | Length of Interior wall  between  23200 - 23650 | Length of Interior wall  between  23100 - 23750 |
| **Doors**  **20 pts** | All 8 doors have been added upstairs | 7 doors have been added upstairs | 6 doors have been added upstairs | 5 doors have been added upstairs |
| **Screen print of Carbon Analysis kgCO2e**  **20 pts** | Total carbon produced is between 40, 250, and 40,350 | Total carbon produced is between 40, 100, and 40,600 | Total carbon produced is between 40, 000, and 40,700 | Total carbon produced is between 39, 500, and 41,000 |

Total score: / 100

A screenshot of a computer

AI-generated content may be incorrect.