

Google SketchUp

Virtual Buildings in Three Dimensions (3D)

- 1) Go to: Start --> Programs --> Google SketchUp --> Google SketchUp
- 2) Your task is to create a 3D virtual building using Google SketchUp.
- 3) Follow the “Self-Paced Tutorials” and complete parts 1, 2 and 3 and notify the teacher before continuing.
- 4) Your building is a **single-family home** that is at least 40',25'.
- 5) Your building must include the following rooms:
 - a) kitchen (at least 1, minimum 8',8')
 - b) living room (at least 1, minimum 8',8')
 - c) dining room (at least 1, minimum 8',8')
 - d) bathrooms (at least 1, minimum 6',4')
 - e) bedrooms (at least 2, minimum 8',8')
- 6) Each room in item #5 must have a piece of furniture that designates the room. (e.g. the bathroom could have a toilet) To do this, click the “Get Models” button and choose a model to import from the Google 3D Warehouse.
- 7) Your building design must include:
 - a) walls at least 4" thick
 - b) flooring
 - c) interior wall colours (the initial blue does not count)
 - d) stairs (inside and/or outside)
 - e) exterior siding
 - f) exterior deck or patio
- 8) Bonus Points will be awarded for:
 - a) deck, patio or stair railings that you make yourself
 - b) landscaping and exterior objects (especially if you make them yourself)
 - c) extra furniture (with small download size, so Sketchup doesn't slow to a crawl)
 - d) house saved as kmz file (placed in Google Earth – Get Current View, Place Model)

Reference:

- **10'** means **10 feet**
- **10''** means **10 inches**
- **10',8'** means **10 feet long by 8 feet wide**

Student: _____

Class: _____

Date: _____

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- 10'6",8'4" means 10 feet 6 inches long by 8 feet 4 inches wide

Evaluation Rubric

	Inexperienced – 0	Beginner – 1	Intermediate – 2	Expert – 3
3D view manipulation	Doesn't remember to use the Orbit command or the mouse wheel as a button	Beginning to use Orbit or the mouse wheel as a button	Understands and can intentionally use Orbit or the mouse wheel	Understands both methods and can instruct others in using one or both methods
Rooms checklist	House has one big room	House has 3 rooms or less	House has all rooms but not of the correct sizes	All rooms exist and meet size specifications
Room items	No items (models) have been inserted into the house	House has items (models) in 3 rooms or less	House has items (models) in all rooms but they aren't lined up in sensible proportions and/or locations	House has items (models) in all rooms and they are lined up in sensible proportions and locations
Wall dimensions	Walls have no thickness (2D)	Some walls have thickness, but no walls are 4" thick	All walls have thickness and some are 4" thick	All walls are 4" thick
Flooring, interior paint, exterior siding	No flooring, paint or siding	Some surfaces have flooring, paint and/or siding	Most surfaces have flooring, paint and siding and only somewhat aesthetically pleasing	All surfaces have flooring, paint and siding and they are aesthetically pleasing
Stairs and deck/patio	No stairs or deck/patio exist	Some stairs and deck/patio have been attempted	Either stairs or deck/patio exist and some parts are not painted	Both stairs and deck/patio exist and are painted (or sided) and are aesthetically pleasing
Bonus Features	Do not exist	Few exist	Some exist and are interesting	Wow! Amazing!