

## **MinecraftEDU Home Building Project 2018-2019 Directions**

### **Spreadsheet, Cost per square foot, plans, budget documents**

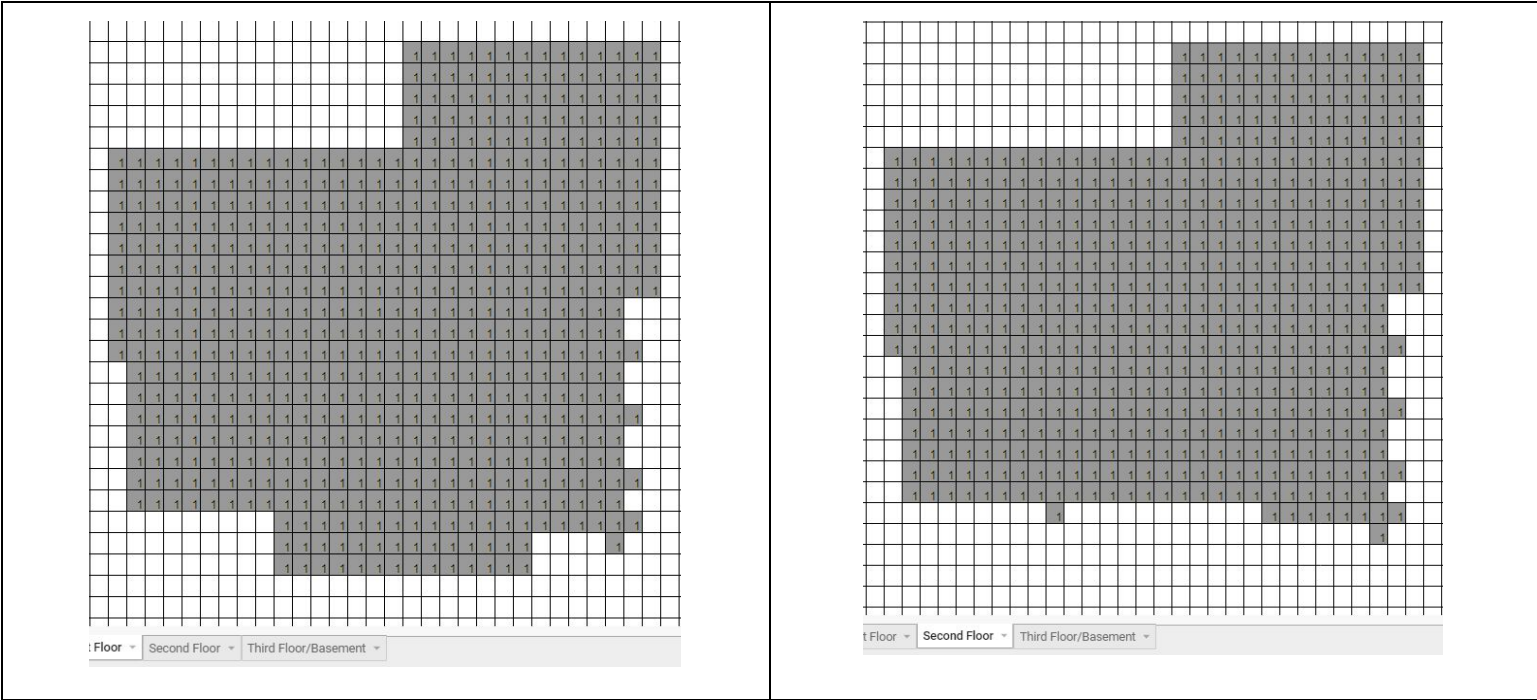
Each student will start with a overall budget of **\$225,000**. This ***should*** be enough to purchase the lot, plan and design/build a house with a minimum 3 bedrooms, family room, kitchen and two bathrooms. This should also cover the costs of exterior amenities. These exterior amenities **will** include a minimum of three trees on the property, some type of flowers or a garden space. Additional possibilities can include a pool or play treehouse or just something fun for the property.



Each lot will have a cost of \$20,000....sorry, non-negotiable. That immediately drops every student budget to \$205,000 for the rest of the project.

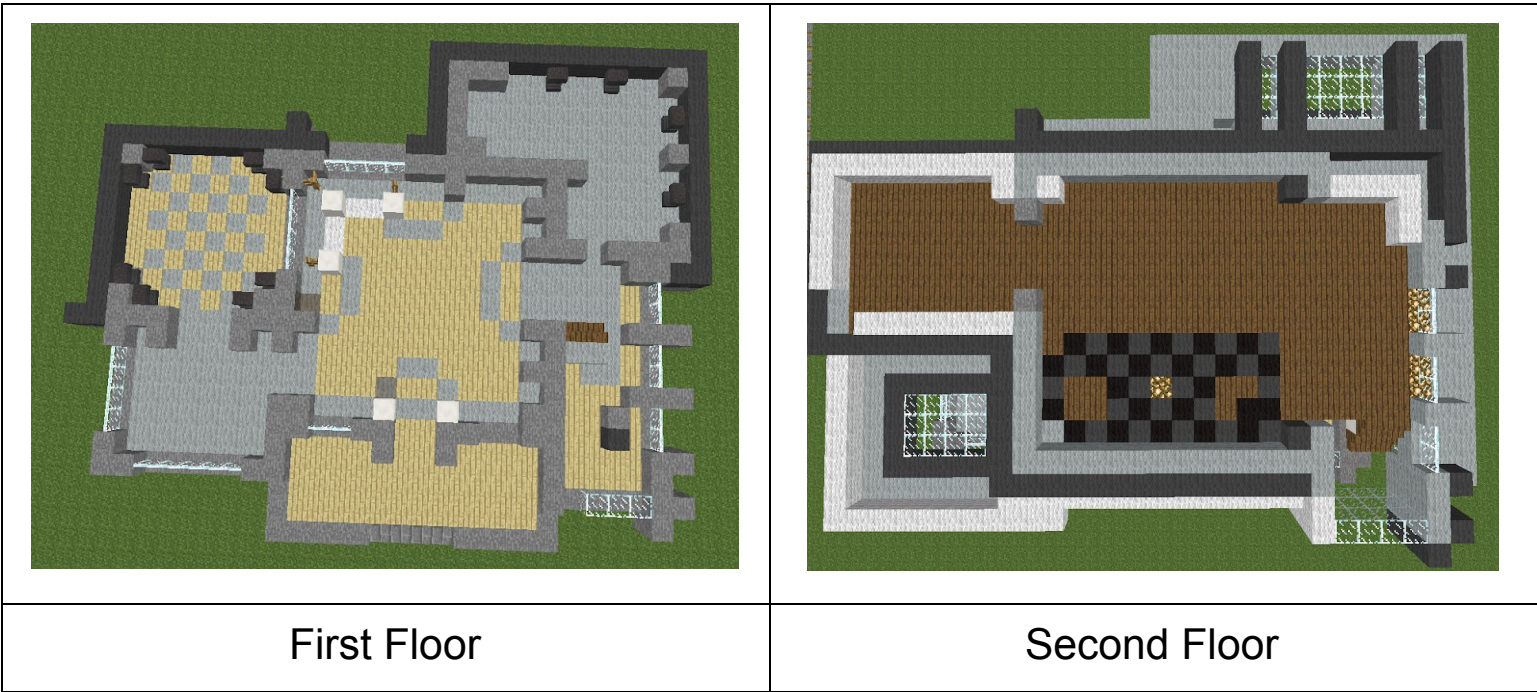
Students will begin with planning in a spreadsheet resembling a graph paper. This will be the planning space for the footprint of the house. If the house is going to be two story, or have a basement, this will be counted in the total square footage. On the planning spreadsheet there are tabs (at the bottom left) that are for “First floor”, “Second Floor” and “Basement/Third Floor”.

**Planning each floor of house.**  
 Cost per square foot is \$114...non-negotiable.



Total Sq/Ft	If the total square footage is 1171, the cost to build with basic materials will be $1171 \times 114 = 133,494$ .  That takes the total budget down from \$205,000 to \$71506. ( $205,000 - 133,494 = 71,506$ )
First floor = 605	
Second floor = 566	
Total: = 605+566 = 1171	

**Record each step in documentation.**  
 Students will have imagery expectations along the way.





## Final / Finished home and property:

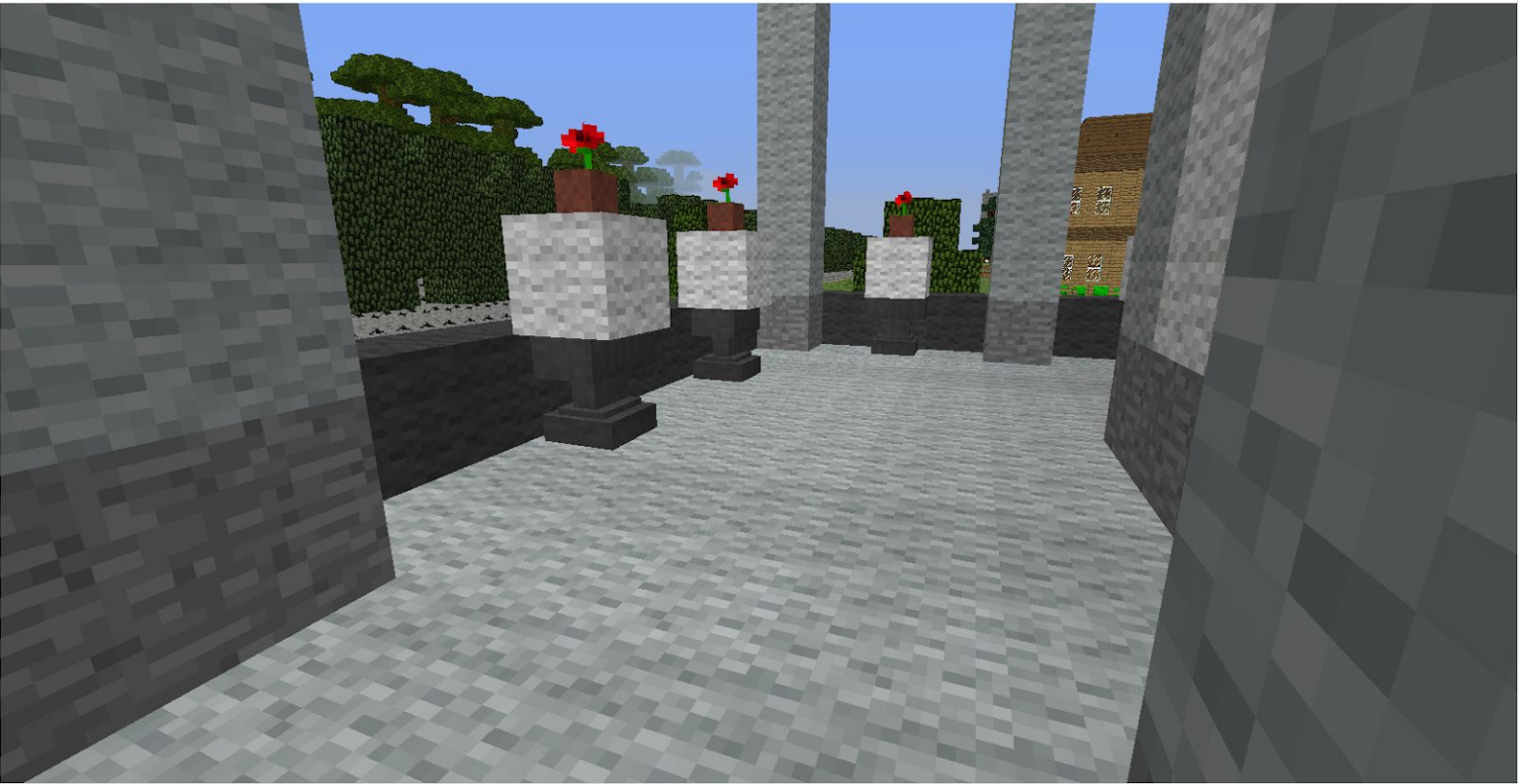
Student will take multiple images of the outside, inside, property and any special features. This will also tie to the rubric (see below).











## Minecraft inventory costs:

- All basic materials and basic blocks will be considered “free” in the cost per square foot to build.
- All ores will be priced at \$25000 per block (*this is to discourage*)
- Chiseled stone blocks and any Quartz will have a cost of \$500 per block
- Nether bricks/blocks, Obsidian, Diamond blocks, Gold and all emerald blocks will be price at \$50000 per block (*this is to REALLY discourage*)
- Redstone MAY be used for lighting, but if used as building block will be priced at \$100,000 per block. (*this is to REALLY REALLY discourage*)
- Pools will have a flat cost of \$20,000 (Quartz allowed...if they are somewhat realistic)
- All “Transportation” materials will be priced at \$15,000 per item.
- All blocks/bricks in the decorations may be used interior but not as building material.
- Trees are \$100 a piece, flowers are free

## Cost sheet:

Name	Amount	Running Total
Starting Budget	\$225,000	\$225,000
Land Cost	<b>\$20,000</b>	\$205,000
Cost per sq.ft. (X \$114)	<b>\$133,494</b>	\$71,506
Exterior costs	<b>\$20,600</b>	\$50,906
Extra costs	<b>\$15,000</b>	\$49,406
Upcharges		

## Minecraft Home Rubric

<b>Name:</b>		<b>Total Points:</b>
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### Home:

<i>Teacher Scoring</i>	<i>Student Scoring</i>	<i>Value</i>	<i>Items REQUIRED in Home (30pts)</i>
		5 pts	- At least 7 rooms total
		5 pts	- Kitchen, Family space/room and at least 2 bathrooms
		5 pts	- At least 3 bedrooms
		5 pts	- Lighted rooms
		5 pts	- Windows (at least 2 per room)
		5 pts	- Furniture/Decoration

### House Structure:

<i>Teacher Scoring</i>	<i>Student Scoring</i>	<i>Value</i>	<i>Items REQUIRED in/on structure of house (40 pts)</i>
		10 pts	Walls (No glass walls)
		10 pts	Roof (No more than 1 room with glass roof)
		10 pts	Doors
		10 pts	Floor (NO DIRT or SAND)

### Property:

<i>Teacher Scoring</i>	<i>Student Scoring</i>	<i>Value</i>	<i>Items REQUIRED on Property (30 pts)</i>
		10 pts	At least 3 trees property (more ARE encouraged)
		10 pts	Path/Walkway to house from street
		10 pts	At least 1 interesting property feature: <ul style="list-style-type: none"> <li>• Water (pond, stream...not necessarily a pool)</li> <li>• Pool / Hot tub</li> <li>• Greenhouse or Shed</li> <li>• Treehouse</li> <li>• (other ideas with teacher approval)</li> </ul>

### Bonus Points:

		5 pts	Realism: Does the house and the inside look realistic?
		5 pts	Realistic Creativity