<u>Budget Home Building Project</u>

Students,

The instructions are fairly simple. Read the directions below and MAKE SURE your house/home follow ALL steps….**CHECK THE RUBRIC**!!!!

1. Design a house (square footage/footprint)
2. Build a house. The land has already been deducted from your cost.
3. Your house MUST NOT exceed a budget of $**175,000**.
4. Your house must have a minimum of 7 rooms.
5. It must have solid floors, a roof, windows, a front door and walls (no dirt, sand or other earth material).
6. Each room must have at least 2 windows (some rooms can have skylights).
7. Interesting designs are encouraged!

Minecraft inventory & specific costs:
- All basic materials & basic blocks will be considered "free" in the overall cost per square foot.
- All ores will be priced at $**50,000** per block (*this is intended to discourage*)
- Chiseled stone blocks and any Quartz (except for pools) will have a cost of $500 per block
- Nether bricks/blocks, Obsidian, Diamond blocks, Gold and all emerald blocks will be price at $**75,000** per block (*this is to REALLY discourage*)
- Redstone MAY be used for lighting, but if used as a building block will be priced at $**100,000** per block. (*this is to REALLY REALLY discourage*)

Other property/decoration costs:
- Pools will have a flat cost of $**10,000** (Quartz allowed...if they are 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
- Ponds: $**1000**, Streams/Creek: $**500**, fountain: $**200**
- Patio/Greenhouse/Stable/mini-Barn/Shed/Deck: $**2500**,
- Pool slide/Swing Set: $**500**
- Treehouse cost per square foot: $**5000**
- Basement $**10,000**
- All other ideas MUST be discussed with teacher / class for review!!

Cost sheet: (Student Copy)

Name	Amount	Running Total
Starting Budget	--------------------------------->	$175,000
Cost per sq.ft. (X $114)		
Exterior costs		
Extra costs		
Upcharges		

Square Footage & Budget Home Building Project

Students,

The instructions are fairly simple. But, **_PLEASE_** Read the directions below and MAKE SURE your house/home follows ALL steps.

Allowed Materials (at a cost):

All Stone/Brick Blocks	Quartz Slabs	Cobblestone	All Wall Materials
All Stone/Brick Slabs	Quartz Stairs	All Sand Materials	Book Shelves
All Planks	Wood Stairs	Gravel	All Trees
Clear Glass	Stone/Brick Stairs	All Raw Woods	All Flowers
All Colored Glass	Pumpkins/Jack o Lanterns	All Sand Stones	Fence/Gates
All Wood Blocks	Block of Iron	Obsidian	All Carpet
Quartz Blocks	Glow Stone	Moss Stone	Doors

Prohibited Building Materials:

All Wool blocks	Sponge	Bedrock	All Ore Blocks
Gold Block	No Diamond or Emerald	No Nether Materials	No End Stone
No Clay	No Monster Eggs	Portals	All Ender Materials
Pistons	TnT	Minecarts	Saddles
Boats	Beacons	Spawn Eggs	Snowballs
Armor	Weapons/Tools	Brewing/Potions	ComputerCraft

Free Materials:

Art	Other decor	Beds	Torches
Cobweb	Bone Meal	All Tables	Furnace
Lilly Pads	Anvils	Frames	Flower Pot
Heads/Skulls	Trap Doors	Levers	Buttons
Redstone Materials - For POWERING ONLY!!		Jukebox	Vines & ladders

Minecraft Home project

This building project within the Minecraft or Minetest sandbox world is a rewarding PBL experience. Students are able to create and build with freedom and creativity. There are multiple directions possible for this project. The original intent for this project was for a home to be built on a fixed budget. Students would be given a dollar amount and allowed to build within a set of basic parameters. They would keep track of the footprint/square footage and record that information on a budget form. In the end they would be assessed on their ability to monitor and manage their build based on the allotted budget.

Over the years this project has been modified to accommodate the needs of certain students and the varying levels and abilities of students in my classroom. This differentiation has become a very positive change to this project. The changes now include multiple rubrics and as a result several variances on the project for each individual student.

Minecraft Home Rubric

Name:		Total Points:

Home:

Teacher Scoring	Student Scoring	Value	Items REQUIRED in Home (30pts)
		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:

Teacher Scoring	Student Scoring	Value	Items REQUIRED in/on structure of house (40 pts)
		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:

Teacher Scoring	Student Scoring	Value	Items REQUIRED on Property (30 pts)
		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: ● Water (pond, stream...not necessarily a pool) ● Pool / Hot tub ● Greenhouse or Shed ● Treehouse ● (other ideas with teacher approval)

Bonus Points:

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