Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ #: \_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Dream House Project

You are the architect in creating your own dream home! Design a home that meets your needs. When working and designing, neatness and pride in your work are key! Follow the directions below and begin designing.

1) Must haves (you may have more, but these are required):

* 2 bedrooms
* 1 bathroom
* Kitchen
* Dining Room
* Family Room
* Fun room of your choosing (arcade, theater, ping pong, indoor pool, etc.)

\*Your home must include these 7 rooms; however you **must have 12 rooms total in your home**.

2) Outline your dream house by drawing the outside walls. Your dream house should be a compound figure with all right angles. Be sure to draw your walls (lines) neatly on the blue lines of your graph paper (this will help with measuring later).

3) Partition your dream house into rooms. **Each room must be a rectangle!**

4) Label each room with a number and a name. (Example: #1- Kitchen)

5) Find the volume of the designated areas of your dream home. Your house in a rancher (one floor) and the height of your ceilings are 8 feet in each room. Each cubic centimeter on your graph paper is equivalent to a cubic foot in real life. = 1 cubic foot or ft3

6) Give your dream house a name! Then color each room. You may add furniture and décor if time allows you to do so.

|  |  |  |
| --- | --- | --- |
| **Category** | **Points** | **Your Points** |
| 12 total rooms (rectangles) | 24 |  |
| volume formula on calculation page | 15 |  |
| correct volume of each room | 15 |  |
| total volume of dream home | 10 |  |
| work shown | 24 |  |
| neatness | 10 |  |
| dream house name | 2 |  |

 **Final Grade:**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Volume Calculations**

Attach all work to this sheet. Label your work neatly according to each room.

|  |  |  |  |
| --- | --- | --- | --- |
| Room # | Room Name | Volume Formula | Total Volume |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |
| 6 |  |  |  |
| 7 |  |  |  |
| 8 |  |  |  |
| 9 |  |  |  |
| 10 |  |  |  |
| 11 |  |  |  |
| 12 |  |  |  |
|  | Sleeping Areas |  |  |
|  | Family Fun Rooms |  |  |
|  | Total Dream House |  |  |