**Performance Assessment Task: Math 11 A&W**

Planning, Scaling and Constructing using mathematics

**Purpose**: At some point in your lives, you will be using these skills in a construction and or renovation project.

**Your task:**

Using the concepts of **area, scaling and measurement,** you will recreate a scaled room in a house. You will have a choice of making one of three rooms. In each room you will have to include the objects in the room. Your choices are listed below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Bedroom** | **Kitchen** | **Bathroom** | **Den** |
| Closet | Stove /dishwasher | Tub / shower | Television |
| Bed | Fridge | Sink | Couch |
| Dresser | Counter/cupboards | Toilet | Coffee Table |
| Desk or Vanity | Island | Medicine cabinet | Lamps |

Once you have selected your room, you will have to perform three tasks.

1. **Space Layout:** Produce a rough draft [not measured/but using a straight edge] of the space you will be constructing on a sheet of graph paper.
   1. Locates all of the objects in the room
   2. Estimates space restrictions
2. **Scaled layout**: Re-Draft the space using proper measurements of objects in the room.
   1. Online, locate how much space these objects take up
   2. Fit them into your room
   3. Scale them to a size that is appropriate for construction
   4. Re-draft your scaled assignment to include the space restrictions, measurements and scale of the objects in the room
3. **Construction:** To the best of you ability, recreate the scaled layout that you have produced.
   1. Using the materials provided, recreate the objects and the room
   2. Add features to your room [hardwood floors, carpet, laminate, tile, paint] – Calculate how much of these materials you need
   3. Set the objects permanently into your room.