

# “Using Area To Create A Floor Plan”

3<sup>rd</sup> Grade Cluminating Activity  
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Math/Visual Art Grade 3  
Core Concept/Visual Art Integration

**Objective:** Make use of material students have learned about multiplication and finding area of polygons to design the floor plan for a castle.

## 3 Grade Core Curriculum Math Standard

Geometric measurement: understand concepts of area and relate area to multiplication and to addition.

## Art Form: Creating Standard 3

Create original music and add expression and timbres to existing music.

### Objective 1

Create original music and add expression and timbres to existing music.

a. Create simple rhythm and/or melody patterns together.

## Equipment and Materials needed:

Graph paper in various colors  
Pencils  
Scissors  
Glue  
Construction Paper for mounting

## Procedures:

1. Review material covered regarding using multiplication and counting to show area in square units.
2. As a class help students to design a grand hall for the center of the castle. It may be a long rectangle or irregular polygon. Then show them how to write the square feet, yards or meters on the polygon itself. Cut it out and mount the grand hall toward the center of the large construction paper.
3. Follow the same procedure to create the throne room, label the area of this polygon, and have students place this room in a sensible position along the grand hall. Use various colors.
4. Brainstorm for other rooms which may likely be located within the castle. (Banquet Hall, Royal Bed Chamber, Royal Kitchens, Servants quarters were some suggestions of my students.)
5. Allow students to creatively continue adding rooms along the hall of their castle design...now visualize living in it.