



Project Title: Area & Perimeter Towns

Grade: 3

Project Idea: Students will use their knowledge of Area & Perimeter to design a building for our 3rd grade town. Each building will be between 3-7 rooms, and have a specific purpose within the town (house, grocery store, restaurant, city hall, etc). Students will be given a total square footage to work with and design their rooms/layout to fit. Students will work in a group to design and present their building. Individually students will produce a report describing their building design, function and purpose within the town. .

Driving Question: How can I use my knowledge of area, perimeter, and communities to design an important building within a community?

Content:

- 3.MD.C.5. Recognize area as an attribute of plane figures and understand concepts of area measurement.
- 3.MD.C.6 Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).
- 3.MD.C.7. Relate area to the operations of multiplication and addition.
- 3.MD.D.8 Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.
- SS3.4 Students understand the role of rules and laws in our daily lives and the basic structure of the U.S. government.

Major Products: Students will create a blueprint layout of their building, accompanied by a slideshow and a written report.

Making it Public: Present design to the city hall "board", including a "city planner"