



Math Project Being an Architect

Name: _____ Date: _____

Math Project – Being an Architect

Supplies Needed:

- Graph Paper
- Ruler
- Pencil

Project Scenario: Your school has decided to build a new building for its students. Your job is to draw the plans for our new building. You will draw the building like you are looking at it from an airplane. This is called an *aerial view*. While you are drawing your plans, every foot will be drawn by drawing a one inch line. Be creative and sensible in your dimensions. Think about what it would be like to go to school in the building you have designed.

Project Requirements:

You must include all of the following items in your plans:

35 classrooms

Each classroom must have a perimeter of 1000 feet)

- 4 Kindergarten classrooms
- 4 1st Grade classrooms
- 4 2nd Grade classrooms
- 4 3rd Grade classrooms
- 4 4th Grade classrooms
- 4 5th Grade classrooms
- 1 SOL classroom
- 2 Resource classrooms
- 3 Pre-K classrooms
- 4 Specials classrooms
- 1 computer lab

4 offices (each office must have a perimeter of 300 feet)

- principal's office
- assistant principal's office
- attendance office
- nurse's office

1 cafeteria (the area must be 500 square feet)

hallways connecting the classrooms

2 playgrounds (the area for each must be 200 square feet)

4 bathrooms, cut into halves so that that you can have a girl's side and a boy's side.

Challenge yourself!!

- 1.) Make sure that at least 5 rooms must be squares
- 2.) Make sure that at least 5 rooms must be rectangles
- 3.) Make sure that at least 1 room must be a hexagon

REMEMBER*

ONE INCH ON YOUR PAPER IS EQUAL TO ONE FOOT IN REAL LIFE!!!

Grading Rubric:

_____ /20 Completeness – Does the project contain all of the required pieces?

_____ /20 Perimeter – Does each required perimeter match?

_____ /20 Area – Does each required area match?

_____ /10 Hallways and Bathrooms – Were these placed in appropriate places?

_____ /10 Creativity – Were you creative in your decisions?

_____ /10 Sensible – Is the school layout in a sensible manner?

_____ /10 Neatness – Is the project clear and readable?

_____ /10 Extra credit – Were the extra requirements met?

_____ /100 Total Score

Teacher comments:

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