ROOM FULL OF CUBES

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GRADE LEVEL: 8th Grade

TOPIC: Volume

OBJECTIVES/PASS: Students will draw a net and form a 6” cube and find the volume of it. (Standard 4.1) Students will have to identify and use different equations. (Standard 4.3.a)

INSTRUCTION:

1. INTRODUCTION: To introduce volume, we will discuss what volume is and what types of things we can find the volume of. After naming items we can use to find volume, I will ask the class if they know any formulas for finding volume. That will lead us into our instruction.

2. INSTRUCTIONAL PROCESS:

   Day 1: Smartboard presentation on finding volume of a cube. Students will work on a volume worksheet with a 30 point bonus on the back about the volume of a reflection pool.

   Day 2: Smartboard presentation on finding the volume of a cylinder. Students will have to find 5 objects around the house and school and measure and find the volume of them.

   Day 3: Cube project. Students will have to create their own net and form a 6” cube. They will find the volume of the cube along with the volume of the classroom. They will answer several questions on the worksheet. After building the cube, they will decorate their box using some form of mathematics.

   Day 4-5: Work on project.

3. CLOSURE: We will close by reviewing our equations, and how to figure volume. We will give examples again of items we can find the volume of. Then we will proceed to the post test.

ASSESSMENT: Worksheets
Pre/Post Test
Cube Project
MODIFICATIONS/ACCOMODATIONS: There were a few modifications I had to make with this lesson. I have a few students who do not understand much English, so I paired them up with a bilingual student who could translate for them. I do not want the terminology to be the hang up with my Spanish speakers. Secondly, a few students who were having trouble how to draw their net and form their cube. I worked one on one with these students and started their net to show them how to draw it. Once they understood what I wanted them to do, they were able to work on their own. After creating their cube, they were paired with a student who could help them get their measurements and explain how to figure the volume.

REFLECTION: I felt like overall, this lesson went very well. The students seemed to really enjoy making and decorating their cubes. I had a lot of trouble getting them to bring a piece of poster board so I think next year I will tell them about the project a week ahead of time so they have more time to get their poster board. The other problem I had was getting them to remember the formulas. Next year I think I will do some sort of foldable to help them remember their formulas. All in all, I thought it went pretty good.