

# ALGEBRA WEEKLY

January 18-22, 2010



*Grade level expectations to be taught this week:*

*8th grade*

*Geometry: 2 using properties of prism to identify and describe cylinders and cones*

*Geometry 6: determine volume of cylinders*

*Geometry 7: determine surface area of cylinders*

*Geometry 8 determine circumference and area of circles*

*9th grade:*

*Geometry 4- determine volume and surface area of cylinders*

*Geometry 5 - graphing (using equations or formulas to determine slope of line segments on a coordinate plane)*

**ACTIVITIES FOR THIS WEEK:**

- 1. Students will perform the activity "Apple pi" to determine circumference and area of circles. They will measure real life objects and will discover relationship of circumference to the diameter of circles. Also in this activity, they will explore the area of circle formula through Archimedes method.*
- 2. The next activity is called "Popcorn prisms, Anyone in which they will explore the volume of prisms and determine which dimension will affect the change in volume.*
- 3. "Popcorn as Cylinders activity will help them discover volume of cylinders and which dimension will affect a change in volume. They will also determine volumes of real life objects in cylindrical shapes like coffee can, salt container, cup, etc.*
- 4. The surface area activity will take them to discover the difference between volume and surface area of cylinders.*
- 5. Winter benchmark for AIMS web starts this week. AIMS web in Math is a 4-minute accuracy test on basic operation skills on whole numbers, decimals and fractions. A child who has the basic skills mastered can score from 50-100 correct digits in this type of test. The test is just one of the tools teachers use to determine student's proficiency in math.*

**Note: An updated progress report will be given to students this week. This will help them keep track of missing assignments and assignments that need to be corrected. The official progress report will be given to them, January 25 for parent signature.**