

Mathematical Reasoning Class Description

Using Mathematical Reasoning through Verbal Analysis- Level 2 Grades 4-7

Class Description

The class was designed to provide a learning environment for young students, ages 8-11, to prepare them for upper-level challenges. Small group settings allow teachers to help students reason out their answers together while also generating different strategies for solving various problems.

Class Objectives

Each class covers mathematical reasoning skills for particular topics during a 45 minute lesson each week. Depending on age and maturity, students who actively participate in class and practice with a parents at home will be able to improve their grades and test scores while building their confidence.

- Learn fractions and decimals
- Recognize and classify various polygons and complex shapes
- Computing perimeters and areas
- Estimate and compare lengths
- Read and interpret bar graphs

In class, we will complete several worksheets while using math props and other helpful tools to visually show students important concepts in problem solving. Each student's progress will be monitored on a monthly basis based on class participation and individual accuracy of assignments.



Readiness for Upper Grade Levels

The topics and skills taught in the class are drawn from national math standards. It is designed to prepare students for advanced math courses and assessments that measure critical thinking and reasoning. The fun activities will boost student's math comprehension while improving reading skills.

The **Mathematical Reasoning Level 2** class will cover the following concepts:

1. Numbers and Numeration
 - Topics include: Counting strategies, fractional parts, decimal numbers