

Differentiated Math: Reaching All Learners

Course Syllabus

Instructor: Elizabeth Read

Dates of Course: TBD

Course Description: Have you ever said there's more than one way to solve a problem? There is more than one way to teach a concept. This course is designed to use differentiation as a process through which teachers enhance learning by matching student characteristics to instruction and assessment. Teachers will discover their own learning style and get a sense of their teaching strength. Participants will develop or tweak existing lessons to reach all learners.

Course Goals, Outcomes and Objectives:

Educators will...

- identify what type of learner they are targeting in an given lesson plan
- list different activities that address different types of learners
- use mathematical play to develop number sense
- use movement as a learning tool
- create learner tool bags
- create "math labs" that allow their students alternate pathways to learn
- develop two activities that use concrete or semi-concrete approach
- match the activities with the NYS Standards
- develop an assessment that matches a students strength

About the Instructor: Elizabeth Read is a Math Specialist at Albany Avenue School in Lindenhurst. She has been teaching for 21 years. Teaching grades 1, 3, and 5 as a classroom teacher and the last six years as a Math Specialist. As a Math Specialist she is responsible for all aspects of the elementary math program. Elizabeth provides remediation to struggling students, supervises testing and assessment, writes curriculum, and coaches teachers on implementing effective instructional strategies.

NYS Standards Addressed:

MST 3

Five Content Strands: Number Sense and Operation, Algebra, Geometry, Measurement, Statistics and Probability

Five Process Strands: Problem Solving, Reasoning and Proof, Communication, Connections, and Representation

Information Systems – Standard 2

Contact Information: bdkread@verizon.net

Prerequisite Skills/Requirements:

Participants should be able to access the Internet, open and download attachments, and send and receive email.

Required Software:

Participants should have daily access to email, MS Word, and a secure internet connection.

Recommendation of in-service credit:

One in-service credit will be recommended by the instructor on the satisfactory completion of all assignments and requirements. Participation with all assignments is essential for success in this course.