

Integrating Math Vocabulary Into Your Math Programs

(Sloan Course – 15 hours)

Instructor:

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Dates:

TBD

Course Description:

Why study math vocabulary?

If students become fluent in math vocabulary, their understanding of math will come alive. They will be better problem solvers and communicators. Giving student's ownership of a language in which to express their mathematical ideas will increase their confidence.

The focus of the course is to ensure that students become more knowledgeable about and become more familiar with essential math vocabulary. Also, participants will build classroom vocabulary lists, learn methods on how to speak and write mathematics, and explore vocabulary strategies, such as personalized word walls and mathematical reflections.

Course Outcomes:

Educators will be able to:

Create math lessons and assessments that measure conceptual understanding, procedural fluency, and problem solving.

Understand the connection between the New York State Math Standards and math vocabulary.

Interweave five important strands of mathematics highlighting math vocabulary in each.

Connect students to mathematics by building vocabulary in a personal way.

Implement a variety of research-based instructional strategies that support math vocabulary.

Learn to establish the characteristics of a successful math program focusing on math vocabulary.

Evaluate and use state, district, and classroom documents as a checklist and resource for mathematical vocabulary.

Learn problem solving and vocabulary strategies to configure conversation arrangements.

Discuss math vocabulary with other participants.

NYS Standards:

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

ELA

1,2,3,4

Information Systems – Standard 2

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.

Office hours will be held three times during the course. This is a time where participants can ask questions and share ideas and interact with others.

There will be one required synchronous activity during the course. Participants will meet in Elluminate Live.

All materials taken from other sources must have the correct citations.

Prerequisite Skills/Requirements:

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

Participants should know how to use Microsoft Word and Microsoft Power Point.

A high speed connection to the Internet is recommended but not necessary

Office Hours:

I will have optional office hours using Elluminate three times during the week. Office hours will be on Monday between 8:00 pm and 9:00 pm, Wednesday between 8:00 pm and 9:00 pm, and Saturday between 9:00 am and 10:00 am. You will need a speaker and microphone or headset with microphone for the computer.

There will also be one required Elluminate Live session scheduled during the third week of the course. There will be two sessions scheduled, one on the 3rd Thursday between 8-9 and the other on the 3rd Saturday between 9-10. We will do a web tour at www.illuminate.com

Review the following:

http://eeznt3.nyiteez.org/nycgrants/nyc_info.htm

To download Elluminate go to: <http://www.illuminate.com/support>