

Course: Math prep 8-12

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Course Overview

This is a preparatory Math program which is specifically designed to help students review/develop essential mathematical skills necessary for success in regular Math 8-12 courses in school.

It typically supports students who have been identified by the school support teams as needing targeted instruction in this area.

The course focuses on providing a supportive learning environment that integrates language development with mathematical concepts, ensuring that all students can effectively engage with and comprehend mathematical content.

Course Goals & Objectives

- To identify and address areas of difficulty in mathematics.
- To develop organization and time-management strategies.
- To build numerical and computational skills through scaffolded instruction, visual aids, and interactive activities.
- To provide language support when needed in building foundational mathematical concepts, problem-solving and critical thinking skills.
- To enhance confidence and motivation in mathematical learning and offer opportunities for cross-curricular connections.
- To help students build independency in demonstrating ability to identify and describe personal strengths and stretches (self-awareness).
- To develop skills to work both independently and cooperatively (self-advocacy, self-regulation, and communication).
- To foster growth mind set and a positive learning environment that celebrates diversity and encourages collaboration among students from diverse linguistic backgrounds.

Course Content

1. **Diagnostic Assessment and Goal Setting:** After the initial diagnostic assessment, students (Grade 8-12) are divided into two groups Math 1 and Math 2.

Math 1	Math 2
Place value	Place value and basic Math operations Review
Even/Odd numbers	Fractions, Decimals and Percents
Rounding	Operations with Integers
Addition, Subtraction, Multiplication & Division concept and strategies	LCM & GCF
Intro to Fractions	Rounding to nearest tenth, hundredth and thousandth
Decimals and Percents Intro	Perimeter & Area
Measurement	Proportional reasoning
Patterns	Patterns & expressions
Basic Calculator skills	Coordinates and Graphing - Intro
	Intro to Algebra: Solving one step equations
	Intro to Trigonometry and Slope
	Financial literacy
	Measurement
	Scientific Calculator Skills

Assessment Criteria:

- Pre-assessment and post-assessment to measure growth and progress.
- Formative Assessment: Practice Quizzes.
- Summative Assessment: Weekly quizzes/tests to assess understanding of concepts.
- Problem-solving assignments and projects
- Self-Assessment and Teacher feedback.

Reporting:

- Grade 8 & 9: Students' progress is communicated in terms of proficiency scales

Emerging → Developing → Proficient → Extending

- Grade 10-12: Students' progress is communicated in terms of percentage.

Note: This course outline is designed to be flexible and can be adjusted based on the specific needs and learning styles of the students.

Class Expectations

- Follow the code of conduct.
- Attend every class and be punctual.
- Complete all your assignments on time. Communicate (talk, email) in advance if you can't turn in an assignment.
- Use technology in class for learning purposes only.
- Ask for help when needed.
- Inquire, think and participate to the best of your ability.
- Set goals and work towards achieving them.