



Curriculum Proposal for Board of Education Curriculum Committee

Guidelines for Curriculum Proposal

Please provide clear, concise, and thorough statements for each of the following that apply.

CURRICULUM PROPOSAL FORM

Proposal / Course Title: **Math 9 Essentials**

Staff Member Requesting: Reggie Walters

Department/Grade Level: Math Dept, Grade 9-10

THIS IS A PROPOSAL FOR (italicize all that apply):

New Course Course Content Change Instructional Methods Change Textbook Review or Change Other

Number of Classes: 1 section, elective

Total Number Students: Maximum 22

Total Number of Teachers: 1

Requirements (facilities, materials, textbooks, anticipated costs, equipment):

A Current Curricular Description

Math 9 Essentials is an elective, targeted support course designed to address specific skill gaps that may impact student success in high school Algebra. This course is not a prerequisite for Algebra, but rather provides focused instruction, practice, and intervention aligned to Algebra standards. Math 9 Essentials is intended to support students—primarily freshmen—who demonstrate additional math needs, enabling them to successfully complete the required Algebra sequence. Instruction emphasizes foundational numeracy, proportional reasoning, and pre-algebra concepts as needed, with the goal of keeping all students on pace for grade-level mathematics.

Course Catalog Description: Math 9 Essentials provides targeted math support for students who need additional reinforcement to be successful in high school Algebra. This course focuses on strengthening foundational skills aligned to Algebra standards and is designed to support students in successful mastery of their core math coursework. Math 9 Essentials helps ensure students remain on track to successfully complete their core math sequence of high school graduation requirements.

B. Standards for Learning

Math 9 Essentials— Core Standards

- *Number & Operations:* Understand and perform operations with fractions; develop fluency with addition, subtraction, multiplication, and simple exponents.
- *Algebra:* Recognize and use variables in expressions and equations; combine like terms and simplify algebraic expressions; solve one-step and two-step linear equations.
- *Coordinate Geometry:* Plot points on a coordinate plane; graph linear equations in slope-intercept form.
- *Mathematical Practices* (applied throughout): Reason abstractly and quantitatively; use tools strategically (including calculators when appropriate); attend to precision in calculations and problem solving.

C. Expected Student Learning Outcomes:

By the end of Math 9 Essentials, students will be able to:

- Recognize and interpret variables as representations of quantities in mathematical expressions and equations.
- Apply mental math and estimation strategies to efficiently perform basic calculations and assess the reasonableness of solutions.
- Solve one-step and two-step linear equations using appropriate algebraic strategies and explain their reasoning.
- Simplify numerical and algebraic expressions, including combining like terms and applying basic exponent rules.
- Graph and interpret points and linear equations on the coordinate plane, demonstrating understanding of slope and intercept.
- Make connections between algebraic representations and graphical models to support problem solving in Algebra coursework.
- Demonstrate increased confidence and accuracy in foundational math skills necessary for success in high school Algebra.

D. Time Requirements:

One trimester course- plan is for 2nd trimester only

E. Personnel Requirements

No extra personnel requirements, this will be in the place of our current Math for Success of the 2nd trimester

F. Facilities and Equipment Requirements

No additional requirements

G. Teaching strategies and methodologies:

Instruction emphasizes targeted skill development, guided practice and repetition using personalized learning and formative assessments to support student success in high school Algebra.

H. Materials and Textbook needs:

- No textbook needed, materials will be assembled by GLHS Math Dept
- Potentially flash cards for simple facts

I. Costs

- Zero additional costs.
- Grant to be written to purchase flash cards.

J. Schedules

2nd trimester course only taught by a highly qualified math teacher

K. Evaluation Procedures

- Student progress will be monitored through frequent formative assessments and personalized learning activities.
- Performance will be measured with a letter grade reflecting mastery of standards, skill growth, and engagement.

L. Follow up**M. Other staff affected**