

## Our goal...

Imagine a classroom, a school, or a school district where all students have access to high-quality, engaging mathematics instruction. There are ambitious expectations for all, with accommodation for those who need it. Knowledgeable teachers have adequate resources to support their work and are continually growing as professionals. The curriculum is mathematically rich, offering students opportunities to learn important mathematical concepts and procedures with understanding. Technology is an essential component of the environment. Students confidently engage in complex mathematical tasks chosen carefully by teachers. They draw on knowledge from a wide variety of mathematical topics, sometimes approaching the same problem from different mathematical perspectives or representing the mathematics in different ways until they find methods that enable them to make progress. Teachers help students make, refine, and explore conjectures on the basis of evidence and use a variety of reasoning and proof techniques to confirm or disprove those conjectures. Students are flexible and resourceful problem solvers. Alone or in groups and with access to technology, they work productively and reflectively, with the skilled guidance of their teachers. Orally and in writing, students communicate their ideas and results effectively. They value mathematics and engage actively in learning it.

NCTM Standards, 2000



Call for more information!  
269-628-2113

Ask for Mr. O'Neil, Mrs. Herman,  
Mrs. Jacus, Mr. Wood, or Mr. Seiler

## Investing the spirit of Gobles for the future:

Learning  
Pride  
Tradition  
Service  
Vision

Gobles Public Schools

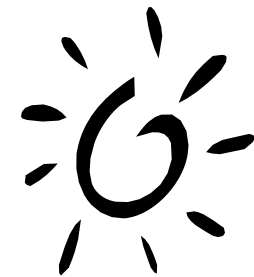
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Gobles Public Schools

ALGEBRA  
IN  
THE  
MIDDLE  
SCHOOL



Quality School! Quality Education!

## Information about Middle School Mathematics

Middle School students should see mathematics as an exciting, useful, and creative field of study. In the middle-school mathematics classroom, young adolescents should regularly engage in thoughtful activity tied to their emerging capabilities of finding and imposing structure, conjecturing and verifying, thinking hypothetically, comprehending cause and effect, and abstracting and generalizing.



What a Great Idea!

In these grades, each student follows his or her own developmental timetable. Some mature early, and others late. Some progress rapidly, others more slowly. We, at Gobles Public Schools, are trying to provide an ambitious, focused mathematics program for *all* students in the middle grades.

### Topics Covered in Middle School Mathematics:

Numbers and Operations

Algebra

Geometry

Measurement

Data Analysis & Probability

Problem Solving

Reasoning and Proof

Communication

Connections

Representation

[http://www.michigan.gov/documents/mde/AcrosstheGrades6toAlgebra\\_225032\\_7.pdf](http://www.michigan.gov/documents/mde/AcrosstheGrades6toAlgebra_225032_7.pdf)

### What Happens Next...

At the beginning of the scheduling process in the spring of a student's 6th grade year, all students will be placed into 7th grade mathematics for the fall unless they meet the following requirements:

- 90% Grade in Previous Math Class
- Score a 230 on NWEA
- Score a 1 on the MEAP
- Teacher Recommendation

If a 6th grade student meets these requirements, they will have the option of enrolling for the fall in Pre-Algebra instead of 7th grade mathematics.

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- Score a 235 on NWEA
- Score a 1 on the MEAP
- Teacher Recommendation

If a 7th grade student meets these requirements, they will have the option of enrolling for the fall in Algebra I instead of Pre-Algebra.

In order to earn a high school diploma, students must successfully complete at least 4 credits of mathematics. Three required courses are Algebra I, Geometry, and Algebra II. A student must also successfully complete a mathematics course their senior year. If a student successfully completes one or more of the required courses before entering high school, the student will be given high school graduation credit and the grade earned will be calculated into their high school grade point average.

Placement into a mathematics class during the freshmen year will be influenced by performance in 8th grade. Students will be encouraged to repeat Algebra I if the basic principles were not mastered. For instance, if a student showed mastery of the material covered in 8th grade Algebra I, the recommendation would be made to enroll in Geometry. These choices would be discussed between student/parent/teacher and guidance counselor.

### Mathematics Courses Offered at Gobles High School:

Algebra I

Geometry

Algebra II

Precalculus

Advanced Placement Calculus AB  
Personal Finance (senior year only)

Students may also receive credit by testing out (passing a test or battery of assessments approved by the district), which measures a student's understanding of the course content expectations for that credit. Students must notify the high school office if they plan to test out of a course.

Research shows that when students use graphing calculators frequently, they tend to score higher on national-, state-, and school-level tests. Some studies have included use both in class and in homework. Students do better in math class when they use a graphing calculator both in the classroom and at home. [www.education.ti.com](http://www.education.ti.com)

Due to the overwhelming research concerning the benefits of graphing calculator use and the State of Michigan mathematics graduation requirements, we **HIGHLY RECOMMEND** that mathematics students purchase their own calculator and bring it to class each and every day. Please contact your child's teacher for more information.