

8th Grade Math I
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Course Description: Math I is a formal in-depth study of algebraic and geometric concepts and the real number system. In the course, students develop a greater understanding of an appreciation for algebraic properties and operations. Topics include solution of equations and inequalities, operations with polynomials and functions, linear modeling, and operations with rational and radical expressions.

Honors Expectations

Any student enrolled in an honors class is expected to demonstrate high quality work during all aspects of the course. We will delve deeper into material than a regular class. Consistent participation is required in order to keep up with the pace of the class.

A List of Expected Learner Outcomes:

The students will learn how to:

- Understanding and interpreting linear and exponential functions and describing their relationship to arithmetic and geometric sequences.
- Solving linear equations and inequalities and systems of linear equations and inequalities in the context of real-world applications.
- Using rigid motion transformations to prove congruence of figures
- Using their understanding of transformations on figures to develop an understanding of transformations of linear and exponential functions in various representations (graph, table, equation, situation, verbal description, etc.)

Daily Required Materials

- WJHS Agenda
- Math Binder
- Graph Paper
- Pencils & erasers
- Calculator (TI-84 or TI-84 CE Plus)

Homework Policy: Homework will be given throughout each unit. Homework is traditionally due the day after it has been given and will be assessed as a completion grade. Completed homework will be accepted with no penalty any time before the end of the unit.

Assessments: Each unit will include multiple formative assessments and 1 summative assessment. Students have the option to make a 3x5 notecard to use during each assessment. Each notecard will be turned in with the assessment and not returned. Retakes are available on these assessments.

Students will be required to take a midterm in the Winter and final in the Spring covering all curriculum prior to the assessment date. Students must receive an 80% or higher to be placed into Math 2 at the high school. If a student does not receive an 80% on these exams, summer coursework might be required to continue in the honors track. Both assessments will be entered into the gradebook. Neither assessment qualifies for a retake.

Retake Policy: Retake opportunities will be available to students wishing to improve their scores on assessments. Students must complete a retake contract, including additional practice to be eligible for a retake. Students may not retake an assessment if they have missing assignments from the current unit.

Classroom Grading Policy & Evaluation Policy:

Our class will be using a hybrid grading model. Students will receive a grade based on the following categories:

Summative Assessments	50%
Formative Assessments	30%
Assignment (includes classwork, projects)	15%
Participation/Homework	5%

Levels of Understanding: In class, students will be using Levels of Understanding to evaluate their progress within any specific learning goal. Below is the scale that we will be referring to.

Level	Classroom Description	WJHS Descriptions
3	**I understand this and I can do this on my own**	Meets Standards
2	I am beginning to understand this, but I still need help.	Approaching Standards
1	I am just starting to learn this. I don't understand it yet.	Still Developing Foundational Skills

**A Level 3 means that the student is proficient at the skill for our grade level. This is the goal for all students to achieve.

Absences: Students must make up any missed work when absent from class. For each day absent, students have 1 school day to make up the work. Work given prior to a student absence is due when the student returns to school. In the event of a prearranged absence, students have the responsibility to make arrangements with the teacher to “make up” missed work.

Extra Credit Policy & Procedures: Extra credit is not given. Students may always turn in missing assignments and retake assessments after completing the required practice to help improve their overall grade.

Communication: Please send me an email or give me a call if you have any questions or concerns you would like to discuss. **Lessons and grades will be updated in OTUS.**

Handle with Care

If your family is experiencing difficulties at home, I would like to provide additional support at school. I understand that you are not always able to share details and that's okay. If your child is coming to school after a difficult night, morning, or weekend, please email me “Handle with Care”. Nothing else will be said or asked. This will let me know that your child may need extra time, practice, or help during the day.

What to Expect from the Teacher

- A structured class that challenges each student to do his or her best.
- A “Personal Trainer” for computation.
- A respectful environment.
- Additional help when needed.

What the Teacher Expects from Students

- Show up to class on time, prepared, and ready to try
- A positive and respectful attitude to ensure each student's personal best.

Essential Standards

HOA 1	Linear equations in one variable
HOA 2	2-Variable linear equations
HOA 3	Systems of linear equations
HOA 4	One variable, 2-variable, and Systems of linear <i>inequalities</i>
PSDA 1	Rates, ratios proportions, unit rates and percents
PSDA 2	STATS
PSDA 3	Probability
PAM 1	Non-linear equivalent expressions and operations
PAM 2	Solving and interpreting solutions to nonlinear equations and systems
PAM 3	Analyzing/interpreting/creating features and models of nonlinear functions
ATM 1	Area and volume
ATM 2	Lines, angles, triangles, circles
ATM 3	Right Triangles and trig