

MATH 4

OVERVIEW

Math 4 is a course of study designed specifically to increase students: problem-solving skills, mathematical reasoning & modeling skills, vocabulary and gain confidence in their own mathematical ability. Students will develop a conceptual understanding of mathematics and learn by doing. It is part of a new approach to mathematics, which integrates the different disciplines in mathematics (Algebra, Geometry, Trigonometry, Probability, and Statistics). It is going to prepare students for the next course in the progression, Math 5. After completion of the course students are expected to:

- Communicate effectively through dialogue and discussion
- Work collaboratively to learn from each other
- Improve their overall mathematical understanding
- Compute problems with and without technology and in a variety of manners
- Develop skills to be better independent learners

This course follows the state adopted Common Core Standards. This class uses collaborative learning and group work to help students learn and analyze concepts.

STUDENT RESPONSIBILITIES

In order to accomplish these goals students must be prepared each day for class. Attendance is mandatory and students must arrive to class on time and ready to begin at the beginning of the period. The following material must be brought to class everyday:

Suggested Supplies:

Textbook, paper (lined and graph), planner, calculator (scientific preferred), ruler, compass, protractor, dry erase marker, highlighter, and pencil

HOMEWORK/NOTES

Homework will be given depending on how much content gets finished in class, and based on student need for understanding of the concepts (as determined by the teacher).

Make up work

Students with an excused absence on day of instruction can make up work for full credit if turned in within two school days upon returning to school. Work during an unexcused absence cannot be made up. Other late homework will be accepted within five days of assignment date, but the grade will be greatly reduced.

QUIZ PREPARATION

It is expected that students will study ALL class notes, homework assignments, skills practices, warm ups, handouts, graphic organizers, etc. in preparation for quizzes. Most work will be assessed formatively meaning the teacher will check & review it in class but not collect it – students are expected make corrections, ask questions, and most importantly, find and learn from their mistakes. These documents should then provide students with ample study material for each quiz.

ATTENDANCE

Attendance is CRUCIAL in this class due to the amount of learning takes place in the classroom and the fact that MUCH of the learning comes from verbal discussions and dialogues that take place in class daily. It is important that students miss as little class as possible. If a student is absent, it is expected that he/she will check the class website on Haiku, complete the missed work to the best of their ability, and get help, if necessary, so they don't fall behind. If a student is absent on the day of a quiz, it is expected that the student will make up the quiz the following school day at 7:30 AM. If a student will miss a quiz for a school related event, he/she must take the quiz BEFORE leaving for the event. A grade of 0 will be entered for each missed quiz until it is taken. Students have as many days to make up the quiz as they were absent.

CLASSROOM NORMS

In order to create an environment in which we can work on the problem solving process and writing students are expected to follow all school rules regarding behavior. The following norms for the classroom are as follows:

- Be an active participant
- Respect other ideas/input
- Keep an open mind
- No Math Bullies
- Be willing to ask questions
- Listen to understand
- Learn from the mistakes we make
- Be prepared to think, reason, and communicate mathematical understanding
 - Embrace the writing

GRADING SCALE/ GRADE BREAKDOWN

This class will have homework on a daily basis. Homework will be short and based on topics students are able to complete. This class will have quizzes often. The focus of these quizzes will be on how well you understand the Common Core Math Standards, are able to communicate your reasoning and apply the concept of mathematics to the real world. Each standard will be graded on a scale of 0-4. Each time a standard appears on a quiz, the most recent score will account for 70% of the standard grade, and the previous scores will comprise the other 30%. Most standards will be assessed more than once to give the student the opportunity for more instruction and practice before a final score on a standard is determined.

The following rubric will be used in Standards Based Grading:

- 4** You have totally mastered the skill, meaning you have demonstrated a full understanding of the concepts involved, have clearly shown all steps of your reasoning, have used notation correctly, wrote clear explanations, and have made no algebraic errors.
- 3** You have a firm grasp of the skill, meaning you have demonstrated a full or almost full understanding of the concepts involved, but you possibly didn't show steps of your reasoning, didn't use notation consistently, could have written better explanations, or made a slight algebraic error.
- 2** You have demonstrated some conceptual understanding of the skill. You possibly have some confused reasoning, did not completely answer the question, did not use consistent notation, wrote a confusing explanation, and/or made more than 1 slight algebraic error.
- 1** You have demonstrated a weak conceptual understanding. You possibly have confused reasoning, poor explanations, and/or made 1 or more serious algebraic error.
- 0** You have demonstrated no conceptual understanding.

Students will be able to view their performance on each standard and their overall grade on auhsd.Haikulearning.com.

Overall grades will be available on Aeries and will be based on:

- (1) Standards and Tests = 90%
- (2) Homework/Classwork/Projects/Participation = 10%

100-99% A+	98-93% A	92-90% A-
89-88% B+	87-83% B	82-80% B-
79-78% C+	77-73% C	72-70% C-
69-68% D+	67-63% D	62-60% D-
Below 60% F		

Effort grade is determined by the following percents in the Assignments/homework/classwork/projects category: 90% to 100% earns an O, 73% to 89% earns an S, 60% to 72% earns an N, and 0% to 59% earns a U.

I have read and understand the expectations for Mr. Leptich's Math 4

Student Name: _____ Signature: _____ Date _____

Parent Name: _____ Signature: _____ Date _____

