

Math 2

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Course Information Sheet 2017

General Information

Course Overview: Math 2 is the second year of our three-year integrated math sequence. It focuses on fundamentals in geometry and algebra, in preparation for Math 3 or Math 3 Honors.

Units of Study: Topics studied include triangles, quadrilaterals, polygons, circles, similarity, right-triangle trigonometry, circumference, area, volume, functions, exponents, polynomial equations and factoring, quadratics, and probability.

Assignments

Work done in class (~30%)

- **Classwork:** A set of problems aligned with each section of notes is done together as a class. In addition, a few points are given periodically for things such as class preparation and in-class practice problems.
- **Reviews:** Reviews are done in self-selected groups of four. Each group gets four different versions of the review that are very similar except for being different levels of difficulty, allowing each student to choose one that is at the level that would most help him or her prepare for the test. Reviews also serve as study guides, and students often take it upon themselves later to print one or more of the other versions at home to practice.
- **Team Quizzes:** The last week before each final, students prepare for it in teams. This provides for students struggling on specific concepts to have tutors for these concepts, and it provides strong students to solidify their understandings through explaining the concepts to others.

Work done at home (~20%)

- **Online Quizzes:** Each section has a four-question multiple-choice quiz, based directly on the online notes, to be taken before class. Online quizzes can be resubmitted until a perfect score is achieved.
- **Homework:** There are usually one or two problems sets per week. The primary purpose of the assignments is not to practice skills, but rather to be aware where weak points in conceptual or procedural understanding may lie. Each problem is individually selected, and there is almost no redundancy within assignments. Students should not be concerned if there are a small number of problems they are unsure of in an assignment, but should seek help from classmates or others before the due date if there are many problems they do not understand. Homework is graded on completeness of work shown and on corrections made in class, but not on accuracy.

Quizzes and Tests (~50%)

- **Quizzes:** To help students stay on top of the material, there is a small quiz after each section, usually the following day. The material is reviewed explicitly beforehand.
- **Chapter Tests:** Tests cover both conceptual and procedural aspects of the content. Test scores may be increased afterward by test explanations, in which students carefully explain how to do problems they had originally done incorrectly, as if they were teaching someone else.
- **Final:** Each final covers the whole semester and is worth two chapter tests.

Things to make life easier

Online Materials: Almost all aspects of the course are available at ewyner.com, including class notes, the textbook and worked out problems, and most other course materials.

Use of Resources: Notes, book, and all electronic devices may be used on all assignments except tests.

Extensions: Students who select this option (see below) may proactively request an extension on any assignment for any reason.

Free C: Students may request a "Free C" on any nontest assignment, in person and prior to the due date, once per grading period. When the assignment is due, it can be turned in normally, or the Free C form can be submitted in its place for a score of 70%.

Score Increases: Quizzes can be retaken, out of a maximum score of 50% higher than the original, until the day before the test. Test scores can be increased by turning in test explanations before the day of the following test.

Study Sessions: At any point, a group of 4 to 12 students can request a formal teacher-led study session, given availability.

Absences and Late Work

It is important not to fall behind, because catching up is much more difficult than keeping up. The online resources can help you keep up with the course and assignments if you are gone.

Please choose the option for late assignments that is best for you. You can switch to option two at any time.

Option One for students that do not expect to have a high number of unplanned absences: Assignments can be turned in after their due dates any time until the day before the test (but no later), and will be reduced in score by no more than 3 points, regardless of reason for lateness. You may change your due date on any assignment, for any reason, to any date before the day of the test, by getting an extension form signed by me prior to the original due date. At the end of the semester, you will receive 20 extra credit points to make up for any points lost on assignments that may have been late for legitimate reasons.

Option Two for students that expect to have a high number of unplanned absences: We will sit down with your parent to work out a personalized late-work plan that will take into account attendance concerns specific to your circumstances. We will also work out an approach for you to be able to stay caught up in class when frequent absences do occur.

Signatures

If you have any concerns, please contact me in person or by email before signing this form.

We have read and understood this course information sheet.

Parent

Name: _____

Signature: _____

Student

Name: _____

Signature: _____

Please return this entire page. It is available online for later reference.