

Math I Syllabus

Purpose of the Course

The purpose of the Math 1 curriculum is to increase student awareness of the importance of mathematics in the modern world. The students will become more confident in their ability to work with mathematical concepts and relationships, learn how to think systematically and use the precise logic required for mathematical problem solving. This course builds on the student's understanding of basic mathematics in the study of algebraic skills and problem solving. Students will learn to express real-world problems in algebraic sentences in order to find solutions. Successful completion of the course is an indispensable step in preparation for Math 2, Math 3, and advanced mathematics.

Method

This course is a year-long class in which the students will be exposed to the above concepts in various ways. We will discuss the concepts in detail during class discussions. Basic calculation skills will be practiced. PowerPoint and video presentations will be used to reinforce concepts. Notes and many sample problems will be presented in various methods to ensure student understanding. Students will be led step-by-step through various thinking and problem solving strategies required to solve many types of problems. Students will be given ample opportunity to practice solving problems through in-class assignments as well as computer based assignments and interactive web based instruction. Students will keep an organized binder of notes, handouts, homework and Test/Quizzes.

Policies

All school rules will be followed in this class. Class rules to be highlighted are:

1. Students must come to class **on-time** and **prepared** with materials. This is especially important as our class is only 45 minutes long and we need every minute to get through all the Math 1 material.
2. When the bell rings you need to be in your seat with all needed materials out and ready to learn.
3. Students must **participate** in class with a positive attitude and demonstrate effort.
4. Students must be **respectful** to both peers and adults in class.
5. Students are **NOT ALLOWED** to use earphones, iPods, MP3 players, game systems, or **cell phones** in class.
6. Students are strongly encouraged to use the restroom **prior** to coming to class. If an emergency arises, students **may** use the bathroom and will have to sign in and out on the bathroom pass sheet. Students must have a pass to leave the classroom for any reason. Misuse of the bathroom policy – taking longer than needed, going every day during class time – may result in limited bathroom privileges.
7. **Cheating and plagiarism** are absolutely forbidden. Copying another student's work, using online Math websites/Math phone apps that work out Math problems for students, or using more than four words from another source without documentation of that source in a paper, will result in a 0 for the student's grade.
8. When you are absent **you are responsible** for acquiring a copy of the notes and assignments from your file folder in the classroom, or checking on my Canvas page, and placing them in your 3-ring binder. You have three days to turn in make-up work for full credit. You are responsible for checking with me when you return and turning in the assignment in a timely manner. If you are absent on the day a test is given, you must make

arrangements to take it before or after school to make this up. Make ups will not be completed during class time. If you don't make up the test or schedule a time to make up the test within 3 days you will get a zero.

9. All assignments are to be completed in pencil. Notes may be taken in pen, but any work turned in must be completed in pencil.

10. You need to show **ALL** of your work on every assignment. If you don't show your work you will not get full credit.

Materials Needed For Class Every Day:

- ✓ Pencils and eraser (either mechanical or standard)
- ✓ Notebook paper (required) and graph paper (optional)
- ✓ Highlighter
- ✓ 3-ring Binder → 1 inch is okay, 1 ½ inch is preferred
- ✓ Graphing Calculator TI 83 or TI 84. This is optional, but is handy for doing work at home.

Graphing Calculators: We do have one class set of calculators available for students to use during the class period. These may **not** be taken home to complete coursework or homework. Students have the option of using online graphing calculators on their home computer or purchasing their own to complete work outside of class. Math I is the first of at least four Math courses you will take in high school. It is generally cost effective to purchase a second hand calculator through a pawn shop or online auction sale, but this is up to you. A brand new TI 84 is around \$100. Secondhand, you **may** be able to purchase a TI 83 for \$30 - \$40. The graphing calculator needed is the **Texas Instruments TI 83 or TI 84**, any edition (silver, plus, etc.) You may use higher level calculators, but not lower. Personal calculators may be used in the classroom, but teacher will clear all memory prior to any assessment. For the Math I EOC you **will** use the class set of calculators.

Tardy Policy You are considered Tardy in my class if you are not inside the classroom. If you are standing outside the door you are still considered tardy. So you will not be hanging out in the hallways until the bell rings.

Tests & Quizzes When you take a test you are allowed the class period to finish the test. Unless you have modifications for extended time on your IEP, you will have to finish the test that day.

Keys to Success in this Course

* **Do all of the assignments yourself. Getting help from parents, another student, or us is fine, but NEVER just copy someone else's work. Copying is plagiarism.**

* **ALWAYS show your work. Turning in a list of answers is not acceptable.** (Exception: problems meant to be done mentally--We'll let you know.) At times, you *may* be eligible for partial credit but **NO WORK = NO CREDIT!**

* **WRITE DOWN** everything we do on the smart-board, or computer. These notes will help you remember how to work problems, giving you a quick study guide before each assessment.

- * **Make sure you understand what we are talking about, mathematically speaking.** If you don't understand, ask us to please go over it again. Advocating for yourself will ensure your success!
- * Make sure you are able to do assignment problems WITHOUT looking at a "model" or "sample" problem. You may need a model for the first few problems, but try to get beyond the need for it quickly. (This is a critical step for doing well on tests.)
- * Keep an organized binder—the more notes you have the better.
- * **Come to after-school tutorials if you find an assignment or section especially difficult. If you are having problems, let me know! I am available for tutoring. Just schedule a time to come and get help.**
- * Remember to ***PAY VERY CLOSE ATTENTION TO DETAILS***. In mathematics you must learn to pay attention to every letter, every minus sign, every parenthesis, etc.

By the end of the year Mrs. Covell will have:

- Presented information related to the Math 1 topics
- Responded to your questions by answering them and/or referring to additional sources
- Given guidance in course related areas
- Given feedback as to your performance on graded areas

By the end of the year you will have:

- Demonstrated increased knowledge and awareness of algebraic concepts
- Demonstrated increased knowledge and understanding of linear functions and graphing
- Demonstrated increased knowledge and understanding of polynomials, exponents, and radicals
- Learned to solve real life problems using basic algebra skills
- Learned to collect, organize, and use information to solve algebra problems
- Demonstrated readiness for successful study of more advanced mathematics courses
- Demonstrated an appropriate classroom attitude
- Completed all assigned class projects and assignments

Grading: I will grade you using the following percentages:

Homework/classwork/participation:	25 %
Quizzes:	25 %
Tests/Projects:	50 %

Tutoring Hours: Upon request in the afternoon from 3:05 – 3:35PM in room 142 (EC Office).

Contact Information

Mrs. Covell

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Canvas Page: <https://ucps.instructure.com/courses/96881>