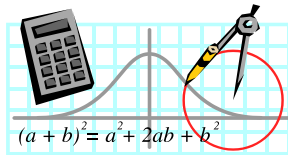


Jefferson Middle School Algebra 1 Syllabus



Welcome to the 8th grade at Jefferson Middle School - your last but very important year before High School. Our Algebra course content is a part of the Michigan Merit Curriculum consisting of the Michigan High School Content Expectations (HSCEs) and the new national Common Core Standards.

These documents can be found using the following links:

http://www.michigan.gov/documents/mde/AlgebraI_216634_7.pdf.

http://corestandards.org/assets/CCSSI_Math%20Standards.pdf.

Students are required to take four Mathematics classes to graduate from Lakeview High School. By successfully completing Algebra 1 here at JMS, your student will have to complete a minimum of three more mathematics classes at Lakeview HS to satisfy the state requirements (Geometry, Algebra 2, and a math-related course during his/her senior year).

Our Algebra 1 course is constructed from a *Family of Functions* approach to teaching Algebra designed to teach all components of the Algebra 1 Common Core Standards. We utilize the Holt-McDougal Algebra 1 text, copyright 2011 in our daily instruction. Each classroom includes a class set of this text, and students will have the option to sign out a CD version of the textbook for use at home.

Technology is also a very important component of the teaching strategies we use to instruct our students. JMS Algebra 1 students use the TI-84 Plus graphing calculator. **All students will have access to a calculator daily for classroom use; however, students will not have the ability to take a calculator home, therefore it is strongly encouraged that each student purchase this graphing calculator for use in this class, as well as all future high school Mathematics courses.**

Algebra 1 Course Content:

The course is divided into the following units of study:

- ✓ Introduction to Algebra
 - Foundations for Algebra
 - Equations
 - Inequalities
- ✓ Linear Functions
 - Function Basics
 - Linear Functions
 - Systems of Equations and Inequalities
- ✓ Exponential Functions
- ✓ Quadratic and Polynomial Functions
 - Exponents and Polynomials
 - Factoring Polynomials
 - Quadratic Functions and Equations
- ✓ Other Functions (Radical, Rational, Cube Root, Inverse, Piecewise defined)
- ✓ Data Analysis and Modeling

Algebra 1 Course Policies and Procedures:

Attendance: Be present and on time to class everyday. If you are absent, your classroom teacher will have a designated area in the classroom where you can find copies of handouts and notes from the previous class period. It is imperative that you obtain these copies as soon as you return to school. If you need assistance in learning the material, you should see your teacher after school as soon as possible.

Materials Needed: You will need the following materials for this class:

- 3-ring binder (at least 2 inch) with tabs (6) for each unit
- Pencils (will not be provided to you)
- Loose-leaf paper
- Homework completed everyday
- TI-84 Plus Graphing Calculator (*optional, but strongly encouraged*)

Everything you are given should be organized into your binder by unit. You should never throw anything away unless directed to do so.

Daily Procedures:

- 1- Be quietly in your seat working on your warm-up/starter activity as soon as the bell rings each day.
- 2- Take notes daily during lesson instruction. The rule for note taking: *If I write it down, it is important!!!* Use these notes as your guide to complete homework assignments and study for assessments.
- 3- Do your homework - In mathematics, in order to learn the skills, you must PRACTICE the skills. We will spend time at the beginning of class each day to discuss the homework and if you have completed work, it will allow you to ask questions and seek clarification if needed. If you fall behind in your homework, it will become very difficult to catch up. **It is required for all students to show work on every problem in Algebra 1 in order to earn credit on formative and summative assessments.**
- 4- **Study** for all quizzes and tests. Make flash cards, review your notes, and do extra practice problems to make sure you know each concept.
- 5- Retake any quiz in which you earn a score less than 70-75% within one week of the original quiz. In order to complete a retake, you must correct the missed problems on the original quiz, seek teacher approval on these corrections, and come after school to complete a quiz retake.
- 6- Attend after-school or lunch help when necessary to better understand the concepts taught in class. Do not fall behind - all concepts in Algebra build upon previously learned content.
- 7- Keep ALL electronic devices hidden at all times. This includes headphones, I-pods, cellular phones, cameras, portable game systems, etc. An electronic device out in class will be confiscated and turned in to the administration - no questions asked.
- 8- Come to class ready to work and learn everyday, and have a positive attitude about learning Algebra. Be actively engaged in each lesson - you will only get out of this class what you put into it.
- 9- Be a STARR student everyday following the school code of conduct:

Safety

Tolerance

Achievement

Respect

Responsibility

Special Circumstances: Parents of any student with special learning needs should contact the Algebra 1 teacher (email or phone) in order to meet with the student and parent to develop an individualized plan designed to encourage and increase success in Algebra.

Any students desiring challenging extension opportunities in the area of Math can be provided with the opportunity to work on an online E2020 course to increase Mathematical skills and go beyond Algebra. Students will also be pre-assessed prior to each unit, and any students who pass the pre-assessment will be given the opportunity to be engaged in an extension activity/project in place of the unit the student has indicated mastery in.

Communication: All parents with Internet access available will have the ability to monitor progress and check student grades and missing assignments at any time (24 hours a day, 7 days a week) using Powerschool. The school will provide you with a username and password in order to access grades and monitor progress. Progress reports will not be handed out to students on a regular basis. Contact your student's teacher if you have specific questions or concerns about student progress.

All teachers will also maintain and update a website where parents can access information regarding daily and weekly assignments, upcoming assessments, announcements, and obtain electronic copies of handouts.

Teacher Contact Information:

Mr. Battani

Room

Email: vbattani@scslakeview-k12.com

Phone: 586-445-4130 ext.

Website:

Mr. Kueppers

Room

Email: skueppers@scslakeview-k12.com

Phone: 586-445-4130 ext.

Website:

Mrs. Zaborowski

Room

Email: jzaborowski@scslakeview-k12.com

Phone: 586-445-4130 ext.

Website:

Algebra 1 Grading Policies:

Starters: 5 points each week (due on Friday)

Homework: 5 points per day

Quizzes: 100 points

Tests: 100 points

Each marking period grade will be calculated as follows:

80% Summative Assessments - Tests and Quizzes
20% Formative Assessments - Homework, Starters, etc...

** Notes will not be permitted on any tests or quizzes. **

Final End-of-Year Grades will be calculated as follows:

22.5% -- Marking Period 1
22.5% -- Marking Period 2
22.5% -- Marking Period 3
22.5% -- Marking Period 4
10% -- Final Exam

** Summer school will be required for any students not earning a passing final end-of-year grade in this course. **

Attributes of a Successful Algebra Student:

- ❖ The student makes sense of problems and perseveres in solving them.
- ❖ The student reasons abstractly and quantitatively.
- ❖ The student constructs viable arguments and critiques the reasoning of others.
- ❖ The student models mathematics.
- ❖ The student uses appropriate tools strategically.
- ❖ The student is precise.
- ❖ The student looks for and makes use of structure.
- ❖ The student looks for and expresses regularity in repeated reasoning.

