

**Powell Middle School**

**Algebra I Syllabus**

**2019-2020**

**Course Description:** Algebra I teaches the language through which most of mathematics is communicated. The content taught provides the mathematical understanding to operate with concepts at an abstract level then apply them in new situations. Therefore, it is a very important course to build the foundation for future math classes in high school. Common Core Standards will be included in the KCS Algebra I curriculum this year.

**Instruction:** The following topics will be covered during the projected times:

- **Unit 1: Searching for Patterns**
  - **Topic 1 – Quantities and Relationships**
  - **Topic 2 – Sequences**
  - **Topic 3 – Linear Regressions**
- **Unit 2: Exploring Constant Change**
  - **Topic 1 – Linear Functions**
  - **Topic 2 – Solving Linear Equations and Inequalities**
  - **Topic 3 – Systems of Equations and Inequalities**
  - **Topic 4 – Functions Derived from Linear Relationships**
- **Unit 3: Investigating Growth and Decay**
  - **Topic 1 – Introduction to Exponential Functions**
  - **Topic 2 – Using Exponential Equations**
- **Unit 4: Describing Distributions**
  - **Topic 1 – One-Variable Statistics**
  - **Topic 2 – Two-Variable Categorical Data**
- **Unit 5: Maximizing and Minimizing**
  - **Topic 1 – Introduction to Quadratic Functions**
  - **Topic 2 – Solving Quadratic Equations**
  - **Topic 3 – Applications of Quadratics**

- Additional time will be used to build skills in areas of deficiency.

Links to Curriculum Standards: The Knox County Schools Mathematics program implements a comprehensive, research-based approach to learning mathematics. Our curriculum is carefully aligned with the Tennessee Department of Education.

<https://www.tn.gov/education/article/mathematics-standards>

**Resources:** The textbook used for Algebra I is: Carnegie Learning Algebra I

The Holt McDougal Larson Algebra I textbook will also be used as an additional resource.

**Resources Used In Addition to Textbook:**

*We will be using Brain Pop, Learnzillion, School Tube, Teacher Tube, and various other math-based web sites to supplement the textbook and enhance the opportunity for mastery. If you do not approve of a specific resource listed in this syllabus, please make your request to me in writing and an alternative assignment and/or materials will be provided. The request should include your name, the student's name, the specific activity/materials in which you do not want your child to participate or to which you do not want them exposed, and the nature of your objection.*

**Materials:** The students are expected to have paper, lots and lots of pencils (work will not be accepted that is done in pen), (1 or 2 inch) 3-ring binder, spiral notebook, and a glue stick with them every day in class.

**Strongly Recommended:** TI-84 graphing calculator

- A set of TI-84 calculators will be available for test and classroom use. However, if you would like to purchase a TI-84 graphing calculator to use in class, it would be a wise investment, because you can use this calculator throughout your high school math courses. Do not get anything beyond a TI-84, please.

**Assessment:** The following is the grade distribution for Algebra I:

First Semester	Second Semester
Formative (Homework & Projects) 45%	Formative (Homework & Projects) 35%
Summative (Quizzes & Projects) 35%	Summative (Quizzes & Projects) 30%
Benchmark (Cumulative Assessment) 20%	Benchmark (Cumulative Assessment) 20%
	EOC 15%

**Make-up/Late Work:** Students are responsible for the getting make up work when they return to class. One day will be given to turn in the assignment for each day absent. (Students absent for extended periods of time may be provided additional time at teacher discretion.) Students may lose credit by turning work in late. Each teacher will outline their procedure for late work individually through their classroom management plan.

**ASPEN on Parent Portal Post Policy:** To provide timely feedback, grades will be entered into ASPEN at least once a week except under extreme circumstances.

**Student Expectations:** My classroom management is based upon mutual respect. Students are expected to be on time to class and be prepared on a daily basis. Work must be shown for all problems and assigned homework is due in the next time that we meet this class. Late work will only be accepted under special circumstances that have been worked out between the student, parents/guardians, and the teacher.

#### **Religion in the Classroom:**

The Board affirms that it is essential that the teaching about religion—and not of a religion be conducted in a factual, objective and respectful manner in accordance with the following:

- \* Music, art, literature, or drama with a religious theme or basis are permitted as part of the curriculum for school-sponsored activities and programs provided it is essential to the learning experience in the various fields of study and is presented objectively;
- \* The emphasis on religious themes in the arts, literature and history shall be only as extensive as necessary for a balanced and comprehensive study of these areas. Such studies shall never foster any particular religious tenets or demean any religious beliefs; and
- \* Student-initiated expressions to questions or assignments which reflect their beliefs or non-beliefs about a religious theme shall be accommodated. For example, students are free to express religious belief or non-belief in compositions, art forms, music, speech and debate.

**Communication:** A webpage on the Parent Portal System (ASPEN) will be updated throughout the semester. In addition, a computer text message service (Remind) will be used to inform parents and students of assignments and upcoming assessments.

If you have any questions or concerns at any time, please contact me via ASPEN, the school office 938-9008, or email at [jeanie.roop@knoxschools.org](mailto:jeanie.roop@knoxschools.org) and [samantha.vermillion@knoxschools.org](mailto:samantha.vermillion@knoxschools.org) .

**Please indicate you have read and are aware of the information provided in the Algebra Syllabus from Ms. Roop and Mrs. Vermillion.**

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Student signature/date

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Parent signature/date