

Powell Middle School
8th Grade Pre-Algebra Syllabus
2019-2020

Course Description: 8th Grade Pre-Algebra is a rigorous course designed to prepare students for the Algebra I curriculum. Students use linear functions, linear equations, and systems of equations to represent, analyze, and solve a variety of problems. Students extend their understanding of slope as a constant rate of change and use slope to analyze situations and solve problems. They apply the Pythagorean Theorem to find distance between points in the coordinate plane to measure lengths and analyze polygons and polyhedral.

Instruction: The following topics will be covered during the academic year as follows:

Semester 1	Semester 2
Unit 1: Real Numbers, Exponents, & Scientific Notation	Unit 4: Transformational Geometry
Module 1: Real Numbers Module 2: Exponents & Scientific Notation	Module 9: Transformations & Congruence Module 10: Transformations & Similarity
Unit 2: Proportional & Non-proportional Relationships & Functions	Unit 5: Measurement Geometry
Module 3: Proportional Relationships Module 4: Non-proportional Relationships Module 5: Writing Linear Equations Module 6: Functions	Module 11: Angle Relationships in Parallel Lines & Triangles Module 12: The Pythagorean Theorem Module 13: Volume
Unit 3: Solving Equations & Systems of Equations	Unit 6: Statistics
Module 7: Solving Linear Equations Module 8: Solving Systems of Equations	Module 14: Scatter Plots Module 15: Probability of Compound Events

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

Resources: The textbook used for Pre- Algebra is GOMATH Middle School Grade 8

<http://my.hrw.com>

We will be using Kahn Academy, Brain Pop, and various Mathematic 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, pencil, spiral notebook, 2-pocket, 3-prong folder (any color) and textbook with them every day in class. Individual teachers may differ in materials for their specific class.

- A set of TI-30XS Multi-View calculators will be available for test and classroom use.

Assessment: The following is the grade distribution for Pre-Algebra:

Formative Assessments – 50% (Homework and Class work)

Summative Assessments – 30% (Quizzes and Projects)

Benchmarks – 20% (Cumulative Assessments)

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 for turning homework in late. Each math teacher has her own procedures for credit available for late work.

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.

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: Each class will have a page on ASPEN that will be updated frequently throughout the semester. The students will also have access to a Canvas page if provided by the teacher. Each teacher will use Remind to inform the parents and students of important upcoming events in the classroom.

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, samantha.vermillion@knoxschools.org, shelley.powell@knoxschools.org , or cindy.faller@knoxschools.org.

Please indicate you have read and are aware of the information provided in the Pre-Algebra Syllabus from Ms. Roop, Mrs. Vermillion, Mrs. Powell and Ms. Faller.

Student signature/date

Parent signature/date

Ms. Roop, Mrs. Vermillion, Mrs. Powell and Ms. Faller