PETERS TOWNSHIP MIDDLE SCHOOL
COURSE SYLLABUS: PRE-ALGEBRA ENRICHED

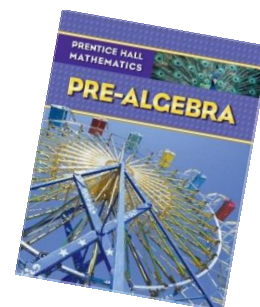| Course Information	Teacher Information
Course Length: Full Year	Name: Kayla Koda, Jill Kern, Mary Collins

Course Overview and Essential Skills

This 7th grade enriched math course is a rigorous, fast-paced integrated program. It includes topics of integral operations, equations and inequalities with integers, fractions, and decimals, linear operations and graphing, ratios, proportions, percents, geometry, data analysis, probability, and measurement. This course is designed to prepare students for the Algebra I Enriched course in 8th grade.

This course incorporates additional units and sections not covered in the other Pre-Algebra course. Additionally, students are provided with more demanding nightly homework, graded homework, and tests.

Course Textbook, Supplemental Resources and Required Materials

- Pre-Algebra (2007), ISBN#: 0-13-133995-8
- Think Through Math Website: https://lms.thinkthroughmath.com/users/sign_in
- Materials
  - Binder & Paper (or folder and notebook)
  - Pencils
  - Calculator: TI-30XS MultiView (highly recommended)

Course Outline of Material Covered:

Unit or Topic	Course Activities/Resources	Timeframe
Algebraic Expressions & Integers Sections 1-1, 1-2, 1-3, 1-5, 1-6, 1-9, 1-10	Focus problems; note-taking on each section of the unit packet; individual and group practice; homework; quizzes; test	Approximately 5 weeks
Equations & Inequalities Sections 2-1, 2-2, 2-3, 2-5, 2-6, 2-8, 7-1, 7-2, 7-3, 7-5, 7-6, 7-7	Focus problems; note-taking on each section of the unit packet; individual and group practice; homework; quizzes; test	Approximately 6 weeks
Ratios, Proportions, & Percents Sections 6-1, 6-2, 6-3, 6-4, 6-5, 6-6, 6-7, 6-8, 6-9	Focus problems; note-taking on each section of the unit packet; individual and group practice; homework; quizzes; test	Approximately 4 weeks
Angle Relationships & Parallel Lines Section 9-2	Focus problems; note-taking on each section of the unit packet; individual and group practice; homework; quiz; test (included with Chapter 10)	Approximately 1 week
Area & Volume Sections 10-1, 10-2, 10-3, 10-5, 10-6, 10-7, 10-9	Focus problems; note-taking on each section of the unit packet; individual and group practice; homework; quizzes; test	Approximately 4 weeks
Fractions & Decimals Supplemental Unit	Focus problems; note-taking on each section of the unit packet; individual and group practice; homework; quizzes	Approximately 2 weeks

Linear Functions & Graphing Sections 8-1, 8-2, 8-3, 8-4, 8-7, 8-8	Focus problems; note-taking on each section of the unit packet; individual and group practice; homework; quizzes; test	Approximately 4 weeks
Factors, Fractions, & Exponents Sections 4-1, 4-2, 4-3, 4-4, 4-6, 4-7, 4-8, 4-9	Focus problems; note-taking on each section of the unit packet; individual and group practice; homework; quizzes; test	Approximately 4 weeks
Right Triangles Sections 11-1, 11-2, 11-3	Focus problems; note-taking on each section of the unit packet; individual and group practice; homework; quiz	Approximately 1 week
Polynomials Sections 13-4, 13-5, 13-6, 13-7	Focus problems; note-taking on each section of the unit packet; individual and group practice; homework; quizzes; test	Approximately 1 week
Dilations & Rotations Supplemental Unit	Focus problems; note-taking on each section of the unit packet; individual and group practice; homework; quizzes	Approximately 1 week

Please note that the timeframe may be adjusted based off student understanding.
Depending on the needs of the class or changes in the school year, the course outline is subject to change.