

# PETERS TOWNSHIP MIDDLE SCHOOL

## COURSE SYLLABUS: PRE-ALGEBRA

Course Information	Teacher Information
<u>Course Length:</u> Full Year	<u>Name:</u> Kayla Koda, Jill Kern, Mary Collins

### **Course Overview and Essential Skills**

This course uses grade-level materials that include integers, variables, equations and inequalities with integers, fractions, and decimals, data analysis, ratios, proportions, percents, geometry, graphing, probability, and measurement. This Pre-Algebra course is designed to prepare students for our 8<sup>th</sup> grade Algebra I Academic class.

### **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](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 6 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 9 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 6 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, 10-7	Focus problems; note-taking on each section of the unit packet; individual and group practice; homework; quizzes; test	Approximately 3 weeks
Linear Functions & Graphing Sections 8-1, 8-2, 8-3, 8-4, 8-7	Focus problems; note-taking on each section of the unit packet; individual and group practice; homework; quizzes; test	Approximately 5 weeks

Factors, Fractions, & Exponents Sections 4-2, 4-7, 4-8	Focus problems; note-taking on each section of the unit packet; individual and group practice; homework; quizzes; test	Approximately 3 weeks
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.***