

Wallenpaupack Area School District

Wallenpaupack Area Middle School

Course Title: Transitional Math 7

Length of Course: Year-Long

Teacher:

Website for book: <http://www.phschool.com/webcodes10/index.cfm?area=view&wcprefix=adk&wcsuffix=0099>

District Policies:

Academic Integrity:

Academic integrity is essential to the success of an educational community. Students are responsible for learning and upholding professional standards of research, writing, assessment, and ethics in their areas of study. Written or other work which students submit must be the product of their own efforts and must be consistent with appropriate standards of professional ethics. Academic dishonesty, which includes cheating, plagiarism, multiple submissions and other forms of dishonest or unethical behavior, is prohibited.

Assessment:

The goal of grading is to report student progress and achievement to the parents to strengthen the home-school connection. The grade should accurately reflect the student's performance in mastering the PA Standards and the WASD curriculum.

Attendance:

Regular school attendance is vitally important to academic success. Not only does attendance reinforce and enrich the learning process; it also establishes patterns and attitudes that will carry forward into adult work habits. Regular, consistent attendance is a prerequisite to successful school life. Children should be absent only in cases of illness or emergency.

Special Education:

Our commitment to each student is to ensure a free appropriate public education which begins with the general education setting, with the use of Supplementary Aids and Services. Inclusive education describes the successful education of all students with the appropriate supports and services to participate in and benefit from the general classroom settings and other educational environments.

Course Description:

In Grade 7, instructional time should focus on four critical areas: (1) developing understanding of and applying proportional relationships; (2) developing understanding of operations with rational numbers and working with expressions and linear equations; (3) solving problems involving scale drawings and informal geometric constructions, and working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume; (4) drawing inferences about populations based on samples and probability.

Pennsylvania State Standards: All WAMS courses are aligned to the PA Core Standards and Common Core Standards, where applicable.

Course Objectives:

Students will demonstrate the ability to and work toward mastery of:

- Writing and solving expressions with integers and variables.
- Solving a variety of one-step equations by using appropriate strategies, properties, and operations.
- Generalizing unit conversion, simplification, and estimation to use with rational numbers and exponents.
- Applying and explaining the relationship between fractions and decimals.
- Applying the use of ratios and proportions to identify probability and rate of change.
- Applying the use of equations to solve problems.
- Identifying, graphing, and explaining linear functions and inequalities.
- Identifying, re-creating, and classifying figures and shapes.
- Organizing, interpreting, and analyzing information in tables and graphs.

Student Responsibilities:

Attendance expectations: Attendance is essential to reaching your full potential in understanding Pre-Algebraic concepts.

Homework expectations: Assigned homework is expected to be completed to reinforce skills and concepts taught. Homework is to be completed in pencil or erasable pen. All work must be shown (unless wise instructed) and handed in on due date. Points are deducted for lack of work shown based on teacher discretion.

Make-Up Work: Students are responsible for all work missed due to band lessons, sport's activity, or other extracurricular activity by the next class period.

Late Work: Students will have until the chapter test to turn in missed assignments (with all work shown) for half credit.

Assessment:**Grading Components:**

Accountability: 20%

Quizzes: 30%

Tests/Projects: 50%

Content Pacing Guide:

Specific class quizzes and grades will vary based on teacher discretion and student need.

Topic	Major Assignments	Estimated Time
Algebraic Expressions and Integers	<ul style="list-style-type: none"> Weekly reinforcement and cumulative review quizzes Topics include: Integers, expressions, evaluating, order of operations with exponents, coordinate plane, writing expressions, absolute value, and additive inverses. <ul style="list-style-type: none"> Unit Test 	3 to 5 weeks based on student need
Simplifying Variable Expressions Using the Properties of Numbers	<ul style="list-style-type: none"> Weekly reinforcement and cumulative review quizzes Topics include: The property of numbers, including the distributive property, and combining like-terms. <ul style="list-style-type: none"> Unit Test 	2 to 3 weeks based on student need
Rational Number Sense	<ul style="list-style-type: none"> Weekly reinforcement and cumulative review quizzes Topics include: Divisibility and factors, prime factorization, greatest common factor, simplifying fractions, converting between fractions and decimals, and comparing and ordering rational numbers. <ul style="list-style-type: none"> Unit Test 	3 to 5 weeks based on student need
Operations with Fractions and Decimals	<ul style="list-style-type: none"> Weekly reinforcement and cumulative review quizzes Topics include: Adding, subtracting, multiplying and dividing decimals and fractions with and without common denominators. <ul style="list-style-type: none"> Unit Test 	2 to 4 weeks based on student need
Percents, Data Analysis and Probability	<ul style="list-style-type: none"> Weekly reinforcement and cumulative review quizzes Topics include: Conversion between fractions, decimals and percents, measures of central tendency, line plots and histograms, box-and-whisker plots, simple, compound, theoretical, experimental, independent and dependent probability <ul style="list-style-type: none"> Unit Test 	3 to 5 weeks based on student need
Equations	<ul style="list-style-type: none"> Weekly reinforcement and cumulative review quizzes Topics include: Writing and solving one-step, two-step, and multi-step equations using all forms of rational numbers, and simple interest <ul style="list-style-type: none"> Unit Test 	3 to 5 weeks based on student need
Inequalities	<ul style="list-style-type: none"> Weekly reinforcement and cumulative review quizzes Topics include: Writing and solving one-step, two-step, and multi-step inequalities using all forms of rational numbers. <ul style="list-style-type: none"> Unit Test 	2 to 3 weeks based on student need
Ratios and Proportional Relationships	<ul style="list-style-type: none"> Weekly reinforcement and cumulative review quizzes Topics include: Ratios, the constant of proportionality, proportions, similar figures and scale drawings, proportions and percents, percent of change, markup and discount, and using random sampling to draw inferences. <ul style="list-style-type: none"> Unit Test Scale Drawing Project (time permitting) 	3 to 5 weeks based on student need
Area, Surface Area, and Volume of Polygons	<ul style="list-style-type: none"> Weekly reinforcement and cumulative review quizzes Topics include: Classifying triangles and quadrilaterals, area of quadrilaterals and other polygons, circumference and area of circles, finding surface area and volume of three-dimensional figures. <ul style="list-style-type: none"> Unit Test 	3 to 5 weeks based on student need

Points, Lines and Angles	<ul style="list-style-type: none"> Weekly reinforcement and cumulative review quizzes <p>Topics include: Points, lines and angle vocabulary, angle relationships, parallel, perpendicular and skew, writing equations using parallel lines, transversals and angle measurements, and congruency.</p> <ul style="list-style-type: none"> Unit Test 	2 to 3 weeks based on student need
Linear Functions and Graphing (Time Permitting)	<ul style="list-style-type: none"> Weekly reinforcement and cumulative review quizzes <p>Topics include: Relations and functions, equations with two variables, slope and y-intercept, writing rules and linear functions, scatter plots, solving systems of linear equations, graphing linear inequalities, making predictions based on graphs.</p> <ul style="list-style-type: none"> Unit Test Chapter Project (time permitting) 	3 to 5 weeks based on student need
Multiplying and Dividing Expressions with Exponents (Time Permitting)	<ul style="list-style-type: none"> Weekly reinforcement and cumulative review quizzes <p>Topics include: Simplifying expressions with exponents using the rules of multiplication and division, writing fractions without a fraction bar, scientific notation</p> <ul style="list-style-type: none"> Unit Test 	1 to 2 weeks based on student need
Measurement (Time Permitting)	<ul style="list-style-type: none"> Weekly reinforcement and cumulative review quizzes <p>Topics include: Converting between customary units of measure and converting between metric units of measure.</p> <ul style="list-style-type: none"> Unit Test 	1 to 2 weeks based on student need