Wallenpaupack Area School District

Wallenpaupack Area North and South School
Course Title: Fourth Grade Mathematics
Length of Course: Year-Long

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:

The fourth grade math program is designed to allow students the opportunity to apply mathematical understanding of concepts to real world situations. Students actively participate in the calculation, demonstration and application of concepts which include problem solving, computation, measurement, use of number systems, geometry, organizing and interpreting data, fractions, decimals, probability and statistics, algebra, estimation and reasoning.

Core Curriculum:

Operations and Algebraic Thinking

- Use the four operations with whole numbers to solve problems.
- Gain familiarity with factors and multiples.
- Generate and analyze patterns.

Numbers and Operations in Base Ten

- Generalize place value understanding for multi-digit whole numbers.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.

Numbers and Operations-Fractions

- Extend understanding of fraction equivalence and ordering.
- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Understand decimal notation for fractions, and compare decimal fractions.

Measurement and Data

- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- Represent and interpret data.
- Geometric measurement: understand concepts of angle and measure angles.

Geometry

- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Course Objectives:

Students will demonstrate the ability to:

- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics.
- Use appropriate tools strategically.
- Attend to precision.
- Look for and make use of structure.
- Look for and express regularity in repeated reasoning.

Assessment:

Grading Components: quizzes/tests

Content Pacing Guide:

Topic	Estimated Time Frame/Month
Place value – multi-digit whole numbers	September/October
Use place value understanding and properties of operations to perform multi-digit arithmetic	October/November
Use the four operations with whole numbers to solve problems.	November/December
Generate and analyze patterns.	December/January
Gain familiarity with factors and multiples.	January/February
Fractions	February/March
Decimals	March/April
Measurement and Data	April/May
Geometry	May/June