

**Wallenpaupack Area School District  
Planned Course Curriculum Guide**

**Department**

Grade 2

**Name of Course**

Math Grade 2

**Course Description:**

Year long second grade math curriculum

**Initial Creation Date (if applicable) and Revision Dates:**

11/5/2025

Wallenpaupack Area School District Curriculum	
<b>COURSE: Math</b>	<b>GRADE/S: 2</b>
<b>UNIT 1: Figure the Facts</b>	<b>TIMEFRAME: 4-5 weeks</b>

<p><b>PA COMMON CORE/NATIONAL STANDARDS:</b>  <b>Standard - CC.2.2.2.A.1</b>  <b>Standard - CC.2.2.2.A.2</b>  <b>Standard - CC.2.4.2.A.4</b></p>
<p><b>UNIT OBJECTIVES (SWBATS):</b>  Solving addition and subtraction story problems, developing number sense, understanding of operations, fact fluency to 20</p>
<p><b>INSTRUCTIONAL STRATEGIES/ACTIVITIES:</b>  Utilizing math manipulatives ( such as number rack, bead string, and number path) to add and subtract, playing math games/ work places, using math models to help with thinking</p>
<p><b>ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):</b>  Exit tickets, interviews, and observations, benchmark/unit assessments</p>
<p><b>DIFFERENTIATED INSTRUCTION (Acceleration/Enrichment):</b>  Allowing opportunities for discovery, vary the problem structure, modifying amounts to be more challenging</p>
<p><b>RESOURCES (Technology Based Resources, Text Resources, etc.):</b>  Provided curriculum materials, work place games, OGAP resources</p>
<p><b>KEY VOCABULARY:</b>  equal, equation, less than, greater than, sum or total, add, subtract, difference, addend, graphs, double, halve, number rack, even, odd, fact family, analog clock, compare</p>

Wallenpaupack Area School District Curriculum	
<b>COURSE: Math</b>	<b>GRADE/S: 2</b>
<b>UNIT 2: Place Value &amp; Measurement with Jack's Beanstalks</b>	<b>TIMEFRAME: 4-5 weeks</b>

<p><b>PA COMMON CORE/NATIONAL STANDARDS:</b>  <b>Standard - CC.2.2.2.A.1</b>  <b>Standard - CC.2.2.2.A.2</b>  <b>Standard – CC.2.1.2.B.1</b>  <b>Standard – CC.2.1.2.B.2</b>  <b>Standard – CC.2.1.2.B.3</b>  <b>Standard - CC.2.4.2.A.2</b>  <b>Standard - CC.2.2.2.A.3</b></p>
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<b>UNIT OBJECTIVES (SWBATS):</b> Counting and grouping objects utilizing place value, exploring base 10 understanding, measure length with non-standard units, Adding 2-digit numbers on an open number line
<b>INSTRUCTIONAL STRATEGIES/ACTIVITIES:</b> Counting collections, work places/ learning games, drawing picture models, using base 10 blocks, using unifix cubes, measuring objects with cubes and popsicle sticks, creating a number path, using and drawing open number lines to add, counting by 10s on and off the decade, counting by 5s
<b>ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):</b> Exit tickets, observations, benchmark/unit assessments, classroom discussions, formative assessments utilizing whiteboards
<b>DIFFERENTIATED INSTRUCTION (Acceleration/Enrichment):</b> Allowing opportunities for discovery, vary the problem structure, modifying amounts to be more challenging
<b>RESOURCES (Technology Based Resources, Text Resources, etc.):</b> Provided curriculum materials, work place games, OGAP resources, base 10 blocks, virtual manipulatives, unifix cubes, square tiles, popsicle sticks, student analog clocks, bead strings
<b>KEY VOCABULARY:</b> Compare, estimate, greater than, less than, hundreds, tens, ones, regroup, equal, sum, equation, number line, skip jump, array, row, column, perimeter, decade, century, friendly numbers

<b>Wallenpaupack Area School District Curriculum</b>	
<b>COURSE: Math</b>	<b>GRADE/S: 2</b>
<b>UNIT 3: Addition &amp; Subtraction Within 100</b>	<b>TIMEFRAME: 4-6 weeks</b>

<b>PA COMMON CORE/NATIONAL STANDARDS: Standard - CC.2.2.2.A.1</b> Standard - CC.2.2.2.A.2 Standard – CC.2.1.2.B.1 Standard – CC.2.1.2.B.2 Standard – CC.2.1.2.B.3 Standard - CC.2.3.2.A.2 Standard - CC.2.2.2.A.1
<b>UNIT OBJECTIVES (SWBATS):</b> Strategies for multi-digit addition and subtraction within 100, Utilizing models to solve addition and subtraction, solving word problems, using base 10 understanding to solve problems, telling time to hour (half hour and quarter hour)
<b>INSTRUCTIONAL STRATEGIES/ACTIVITIES:</b>

Work places, math games, number lines, quick pictures, story problems, clock practice, break apart (splitting) strategy
<b>ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):</b> Exit tickets, and observations, benchmark/unit assessments
<b>DIFFERENTIATED INSTRUCTION (Acceleration/Enrichment):</b> Allowing opportunities for discovery, vary the problem structure, modifying amounts to be more challenging
<b>RESOURCES (Technology Based Resources, Text Resources, etc.):</b> Provided curriculum materials, work place games, OGAP resources, bead strings, base 10 blocks, virtual manipulatives, number lines, student analog clocks, number paths, popsicle sticks and bundles, flash attacks
<b>KEY VOCABULARY:</b> Length, height, width, compare, difference, subtract, add, double, twice, units, number line, hundreds, tens, ones, commutative property, bundle, expanded form (notation), greater than, less than, total

<b>Wallenpaupack Area School District Curriculum</b>	
<b>COURSE: Math</b>	<b>GRADE/S: 2</b>
<b>UNIT 4: Measurement</b>	<b>TIMEFRAME: 2-3 weeks</b>

<b>PA COMMON CORE/NATIONAL STANDARDS:</b> Standard – CC.2.4.2.A.1 Standard – CC.2.4.2.A.6 Standard - CC.2.3.2.A.1 Standard- CC.2.2.2.A.2
<b>UNIT OBJECTIVES (SWBATS):</b> Measuring in customary units using traditional and inventive tools, solving word problems involving measurements, comparing lengths and heights, counting quarters and dollars, identifying 3-d shape attributes
<b>INSTRUCTIONAL STRATEGIES/ACTIVITIES:</b> Work places, math games, story problems, measuring objects in inches (feet and yards), working with quarters and dollars, work with 3-d shapes
<b>ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):</b> Exit tickets, observations, benchmark/unit assessments, classroom discussions, formative assessments utilizing whiteboards
<b>DIFFERENTIATED INSTRUCTION (Acceleration/Enrichment):</b>

Allowing opportunities for discovery, vary the problem structure, modifying amounts to be more challenging

**RESOURCES (Technology Based Resources, Text Resources, etc.):**

Provided curriculum materials, work place games, OGAP resources, rulers, yard sticks, square tiles, strings, 3-d shapes

**KEY VOCABULARY:**

Estimate, inch, foot, yard, ruler, length, measure, cone, cube, cylinder, polygon, pyramid, rectangular prism, sphere, triangular prism, edge, face, vertex, 2-dimensional shape, 3-dimensional shape, congruent, dollar, quarter, cent, coin, fourth, half, quarter

**Wallenpaupack Area School District Curriculum**

**COURSE: Math**

**GRADE/S: 2**

**UNIT 5: Place Value to 1,000**

**TIMEFRAME: 4-6 weeks**

**PA COMMON CORE/NATIONAL STANDARDS:**

- Standard – CC.2.1.2.B.1
- Standard- CC.2.1.2.B.2
- Standard- CC.2.1.2.B.3
- Standard- CC.2.2.2.A.1
- Standard- CC.2.2.2.A.2
- Standard- CC.2.2.2.A.3
- Standard- CC.2.4.2.A.4
- Standard- CC.2.4.2.A.2
- Standard- CC.2.4.2.A.3

**UNIT OBJECTIVES (SWBATS):**

Add and subtract within 1, 000 using models and base 10 understanding, solving word problems, utilize number lines to add and subtract in multiples of 10 and 100 on and off the decade, counting money amounts with coins and dollar (pennies, nickels, dimes, quarter), solidify place value understanding up to 1, 000, read and analyze bar graphs & picture graphs, halve amounts, build arrays, tell time to the nearest five minutes

**INSTRUCTIONAL STRATEGIES/ACTIVITIES:**

work places, math games, bundling popsicle sticks, showing money amounts with manipulatives or representations, build a chain link of 1,000, build or represent models of 3 digit numbers, utilize virtual manipulatives, students work with graphs, students build arrays

**ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):**

Exit tickets, observations, benchmark/unit assessments, classroom discussions, formative assessments utilizing whiteboards

**DIFFERENTIATED INSTRUCTION (Acceleration/Enrichment):**

Allowing opportunities for discovery, vary the problem structure, modifying amounts to be more challenging

**RESOURCES (Technology Based Resources, Text Resources, etc.):**

Provided curriculum materials, work place games, OGAP resources, bead strings, base 10 blocks, virtual manipulatives, number lines, student analog clocks, number paths, popsicle sticks and bundles, flash attacks

**KEY VOCABULARY:**

Penny, nickel, dime, quarter, dollar, cent, half, decimal point, fourth, ones, tens, hundreds, thousand, compare, digit, place value, equal, equation, greater than, less than, difference, number line, hour, minute, analog, bar graph, least, most, picture graph, fraction, equal parts, unknown, thirds

<b>Wallenpaupack Area School District Curriculum</b>	
<b>COURSE: Math</b>	<b>GRADE/S: 2</b>
<b>UNIT 6: Geometry</b>	<b>TIMEFRAME: 2 weeks</b>

**PA COMMON CORE/NATIONAL STANDARDS:**

Standard - CC.2.3.2.A.1

Standard – CC.2.3.2.A.2

Standard – CC.2.2.2.A.3

**UNIT OBJECTIVES (SWBATS):**

Investigate 2-dimensional shape attributes, explore fractions, students partition shapes into halves and fourths, Identify whether shapes are congruent, navigate a number grid, creating arrays

**INSTRUCTIONAL STRATEGIES/ACTIVITIES:**

Construct and draw triangles and quadrilaterals, use pattern blocks to explore area of shapes, create a quilt using various shapes and discuss how it relates to fractions, explore shapes and their attributes, students discover various arrangements of an array for a given number

**ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):**

observations, benchmark/unit assessments, classroom discussions, formative assessments utilizing whiteboards

**DIFFERENTIATED INSTRUCTION (Acceleration/Enrichment):**

Allowing opportunities for discovery, vary the problem structure, modifying amounts to be more challenging

**RESOURCES (Technology Based Resources, Text Resources, etc.):**

Provided curriculum materials, work place games, OGAP resources, pattern blocks, virtual manipulatives, 1000 grid, square tiles

**KEY VOCABULARY:**

Hexagon, rhombus, trapezoid, triangle, octagon, pentagon, quadrilateral, symmetry, vertex, area, array, double, half, column, row, expression, equation, sum, total, equal, directional words

<b>Wallenpaupack Area School District Curriculum</b>	
<b>COURSE: Math</b>	<b>GRADE/S: 2</b>

**UNIT 7: Hungry Ants - Measurement****TIMEFRAME: 2-3 weeks****PA COMMON CORE/NATIONAL STANDARDS:**

Standard – CC.2.4.2.A.1

Standard – CC.2.4.2.A.6

Standard – CC.2.3.2.A.2

Standard – CC.2.2.2.A.3

Standard – CC.2.2.2.A.1

Standard – CC.2.1.2.B.3

Standard – CC.2.4.2.A.3

Measuring in metric units using traditional and inventive tools, solving word problems involving measurements, Comparing lengths and heights, Solving word problems involving money, Solving Word Problems within 1000 utilizing strategies (number lines, base 10 block Quick Pictures, base 10 understanding), Adding and Subtracting three-digit numbers,

**INSTRUCTIONAL STRATEGIES/ACTIVITIES:**

Students create their own measuring tools, students measure objects using rulers and meter sticks, students compare lengths and heights of various objects, students group amounts into equal shares, students partition shapes into equal pieces to distribute to a certain number of guests, students will create their own story problem, students will solve classmates story problems, students will explain their strategies for solving word problems aloud, students will use square tiles to cover the area of a rectangle and write an equation to match

**ASSESSMENTS (Diagnostic/Benchmark/Formative/Summative):**

Exit tickets, observations, benchmark/unit assessments, classroom discussions, formative assessments utilizing whiteboards, fluency checks on basic facts

**DIFFERENTIATED INSTRUCTION (Acceleration/Enrichment):**

Explaining more advanced strategies, allowing opportunities for discovery, vary the problem structure, modifying amounts to be more challenging

**RESOURCES (Technology Based Resources, Text Resources, etc.):**

Provided curriculum materials, work place games, OGAP resources, virtual manipulatives, rulers, ant rulers, meter sticks, string, money manipulatives

**KEY VOCABULARY:**

Estimate, measure, thousand, hundreds, tens, ones, skip-counting, length, centimeter, estimate, ruler, meter, unit, divide, equal groups, half, quarter, fourth, eighth, fraction, whole, fair, predict, equal, equation, greater than, less than, cent, change, decimal point, dollar, sum, total, place value, digit, strategies, number line, problem solving, addition, subtraction, difference, compare