

Pennsylvania
Curricular Standards
Mathematics - Grade 3
Correlations with Gourmet Curriculum Press, Inc.®
1.800.900.2290

Benchmark Number	Benchmark • Instructional Target	Gourmet Resource	Taught	Tested
1:	Numbers, Number Systems and Number Relationships Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:			
A	<ul style="list-style-type: none"> Count using whole numbers (to 10,000) and by 2's, 3's, 5's, 10's 25's and 100's. 	Appetizers 1 C; 2 B; Main Dish Objectives 1 (Number Concepts) Lesson 3; 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
B	<ul style="list-style-type: none"> Use whole numbers and fractions to represent quantities. 	Appetizers 1 B & D; Main Dish Objective 1 (Number Concepts) Lessons 2 & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
C	<ul style="list-style-type: none"> Represent equivalent forms of the same number through the use of concrete objects, drawings, word names and symbols. 	Appetizers 1 B, D, & E; 12 A; Main Dish Objectives 1 (Number Concepts) Lessons 2, 4, & 5; 12 (Mathematical Representation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
D	<ul style="list-style-type: none"> Use drawings, diagrams or models to show the concept of fraction as part of a whole. 	Appetizers 1 D; Main Dish Objective 1 (Number Concepts) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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E	<ul style="list-style-type: none"> Count, compare and make change using a collection of coins and one-dollar bills. 	Appetizers 1 F; 6 B; 7 B; 9 C; Main Dish Objectives 1 (Number Concepts) Lesson 6; 6 (Addition) Lesson 2; 7 (Subtraction) Lesson 2; 9 (Division) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
F	<ul style="list-style-type: none"> Apply number patterns (even and odd) and compare values of numbers on the hundred board. 	Appetizers 1 A, B, & C; Main Dish Objective 1 (Number Concepts) Lessons 1, 2, & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
G	<ul style="list-style-type: none"> Use concrete objects to count, order and group. 	Appetizers 1 A, B, & E; Main Dish Objective 1 (Number Concepts) Lessons 1, 2, & 5; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
H	<ul style="list-style-type: none"> Demonstrate an understanding of one-to-one correspondence. 			
I	<ul style="list-style-type: none"> Apply place-value concepts and numeration to counting, ordering and grouping. 	Appetizers 1 A,B, & E; Main Dish Objective 1 (Number Concepts) Lessons 1, 2, & 5; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
J	<ul style="list-style-type: none"> Estimate, approximate, round or use exact numbers as appropriate. 	Appetizers 10 A, B, C, & D; Main Dish Objective 10 (Estimation) Lessons 1, 2, 3, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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K	<ul style="list-style-type: none"> Describe the inverse relationship between addition and subtraction. 	Appetizers 2 A; 11 A; 12 A & B; Main Dish Objectives 2 (Mathematical Relations) Lesson 1; 11 (Problem Solving) Lesson 1;12 (Mathematical Representation) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
L	<ul style="list-style-type: none"> Demonstrate knowledge of basic facts in four basic operations. 	Appetizers 6 A; 7 A; 8 A; 9 A; Main Dish Objectives 6 (Addition) Lesson 1; 7 (Subtraction) Lesson 1; 8 (Multiplication) Lesson 1; 9 (Division) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
2:	<p>Computation and Estimation</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p>			
A	<ul style="list-style-type: none"> Apply addition and subtraction in everyday situations using concrete objects. 	Appetizers 6 A, B, C, & D; 7 A & B; Main Dish Objectives 6 (Addition) Lessons 1, 2, 3, & 4; 7 (Subtraction) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
B	<ul style="list-style-type: none"> Solve single- and double-digit addition and subtraction problems with regrouping in vertical form. 	Appetizers 6 A & B; 7 A; Main Dish Objectives 6 (Addition) Lessons 1 & 2; 7 (Subtraction) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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C	• <i>Demonstrate the concept of multiplication as repeated addition and arrays.</i>	Appetizers 8 A; Main Dish Objective 8 (Multiplication) Lesson 1, Reteach Activity; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
D	• <i>Demonstrate the concept of division as repeated subtraction and as sharing.</i>	Appetizers 9 A; Main Dish Objective 9 (Division) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
E	• <i>Use estimation skills to arrive at conclusions.</i>	Appetizers 10 A, B, C, & D; Main Dish Objective 10 (Estimation) Lessons 1, 2, 3, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
F	• <i>Determine the reasonableness of calculated answers.</i>	Appetizers 13 A & B; Main Dish Objective 13 (Reasonableness) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
3:	<p>Measurement and Estimation Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p>			
A	• <i>Compare measurable characteristics of different objects on the same dimensions (e.g., time, temperature, area, length, weight, capacity, perimeter).</i>	Appetizers 4 A, B, C, D, E, & F; Main Dish Objective 4 (Measurement) Lessons 1, 2, 3, 4, 5, & 6; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
B	• <i>Determine the measurement of objects with non-standard and standard units (e.g., US customary and metric).</i>	Appetizers 4 B, C, & D; Main Dish Objective 4 (Measurement) Lessons 2, 3, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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C	• <i>Determine and compare elapsed times.</i>	Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
D	• <i>Tell time (analog and digital) to the minute.</i>	Appetizers 4 A; Main Dish Objective 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
E	• <i>Determine the appropriate unit of measure.</i>	Appetizers 4 B; Main Dish Objective 4 (Measurement) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
F	• <i>Use concrete objects to determine area and perimeter.</i>	Appetizers 4 E & F; Main Dish Objective 4 (Measurement) Lessons 5 & 6; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
4:	<p>Mathematical Reasoning and Connections</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p>			
A	• <i>Make, check and verify predictions about the quantity, size and shape of objects and groups of objects.</i>	Appetizers 3 A; 4 A; 13 A & D; Main Dish Objectives 3 (Geometry) Lesson 1; 4 (Measurement) Lesson 1; 13 (Reasonableness) Lessons 1 & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
B	• <i>Use measurements in everyday situations (e.g., determine the geography of the school building).</i>	Appetizers 4 B & E; Main Dish Objective 4 (Measurement) Lessons 2 & 5; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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5:	Mathematical Problem Solving and Communication Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:			
A	• <i>Use appropriate problem-solving strategies (e.g., guess and check, working backwards).</i>	Appetizers 11 A, B, C, & D; 12 A & B; Main Dish Objectives 11 (Problem Solving) Lessons 1, 2, 3, & 4; 12 (Mathematical Representation) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
B	• <i>Determine when sufficient information is present to solve a problem and explain how to solve a problem.</i>	Appetizers 11 A, B, C, & D; 12 A & B; Main Dish Objectives 11 (Problem Solving) Lessons 1, 2, 3, & 4; 12 (Mathematical Representation) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
C	• <i>Select and use an appropriate method, materials and strategy to solve problems, including mental mathematics, paper and pencil and concrete objects.</i>	All Appetizers; All Main Dish Objectives; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
6:	Statistics and Data Analysis Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:			
A	• <i>Gather, organize and display data using pictures, tallies, charts, bar graphs and pictographs.</i>	Appetizers 5 A; 12 B & C; Main Dish Objectives 5 (Probability/Statistics) Lesson 1; 12 (Mathematical Representation) Lessons 2 & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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B	<ul style="list-style-type: none"> Formulate and answer questions based on data shown on graphs. 	Appetizers 5 A; 12 C; Main Dish Objectives 5 (Probability/Statistics) Lesson 1; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
C	<ul style="list-style-type: none"> Predict the likely number of times a condition will occur based on analyzed data. 	Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Extension Activity; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
D	<ul style="list-style-type: none"> Form and justify an opinion on whether a given statement is reasonable based on a comparison to data. 	Appetizers 13 A, B, & C; Main Dish Objective 13 (Reasonableness) Lessons 1, 2, & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
7:	<p>Probability and Predictions</p> <p>Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p>			
A	<ul style="list-style-type: none"> Predict and measure the likelihood of events and recognize that the results of an experiment may not match predicted outcome. 	Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Extension Activity; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
B	<ul style="list-style-type: none"> Design a fair and an unfair spinner. 	Appetizers 5; Main Dish Objective 5 (Probability/Statistics) Extension Activity; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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C	<ul style="list-style-type: none"> List or graph the possible results of an experiment. 	Appetizers 5 A; 12 C; Main Dish Objectives 5 (Probability/Statistics) Lesson 1; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
D	<ul style="list-style-type: none"> Analyze data using the concepts of largest, smallest, most often, least often and middle. 	Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Extension Activity; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
8:	<p>Algebra and Functions Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p>			
A	<ul style="list-style-type: none"> Recognize, describe, extend, create and replicate a variety of patterns including attribute, activity, number and geometric patterns. 	Appetizers 2 B & D; Main Dish Objective 2 (Mathematical Relations) Lessons 2 & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
B	<ul style="list-style-type: none"> Use concrete objects and trial and error to solve number sentences and check if solutions are sensible and accurate. 	Appetizers 12 A & B; 13 B; Main Dish Objective 12 (Mathematical Representation) Lessons 1 & 2; 13 B (Reasonableness) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
C	<ul style="list-style-type: none"> Substitute a missing addend in a number sentence. 	Appetizers 12 B; Main Dish Objective 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
D	<ul style="list-style-type: none"> Create a story to match a given combination of symbols and numbers. 	Journal Topics all Objectives		

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E	<ul style="list-style-type: none"> Use concrete objects and symbols to model the concepts of variables, expressions, equations and inequalities. 	Appetizers 2 A & B; 12 B; Main Dish Objective 2 (Mathematical Relations) Lessons 1 & 2; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
F	<ul style="list-style-type: none"> Explain the meaning of solutions and symbols. 	Journal Topics all Objectives		
G	<ul style="list-style-type: none"> Use a table or a chart to display information. 	Appetizers 5 A; 12 C; Main Dish Objectives 5 (Probability/Statistics) Lesson 1; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
H	<ul style="list-style-type: none"> Describe and interpret the data shown in tables and charts. 	Appetizers 5 A; 12 C; Main Dish Objectives 5 (Probability/Statistics) Lesson 1; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
I	<ul style="list-style-type: none"> Demonstrate simple function rules. 	Appetizers 1 D; Main Dish Objective 1 (Number Concepts) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
J	<ul style="list-style-type: none"> Analyze simple functions and relationships and locate points in a simple grid. 	Appetizers 2 C; Main Dish Objective 2 (Mathematical Relations) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		

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9:	Geometry Pennsylvania's public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:			
A	• <i>Name and label geometric shapes in two and three dimensions (e.g., circle/sphere, square/cube, triangle/pyramid, rectangle/prism).</i>	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
B	• <i>Build geometric shapes using concrete objects (e.g., manipulatives).</i>	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
C	• <i>Draw two- and three-dimensional geometric shapes and construct rectangles, squares and triangle on the geoboard and on graph paper satisfying specific criteria.</i>	Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lessons 1 & 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
D	• <i>Find and describe geometric figures in real life.</i>	Appetizers 3; Main Dish Objective 3 (Geometry); Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
E	• <i>Identify and draw lines of symmetry in geometric figures.</i>	Appetizers 3 B; Main Dish Objective 3 (Geometry) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
F	• <i>Identify symmetry in nature.</i>	Appetizers 3 B; Main Dish Objective 3 (Geometry) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
G	• <i>Fold paper to demonstrate the reflections about a line.</i>	Main Dish Objective 3 (Geometry) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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H	• <i>Show relationships between and among using reflections.</i>	Main Dish Objective 3 (Geometry) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
I	• <i>Predict how shapes can be changed by combining or dividing them.</i>	Main Dish Objective 3 (Geometry) Lessons 1,2,& 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
10:	<p>Trigonometry Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p>			
A	• <i>Identify right angles in the environment.</i>			
B	• <i>Model right angles and right triangles using concrete objects.</i>			
11:	<p>Concepts of Calculus Pennsylvania’s public schools shall teach, challenge and support every student to realize his or her maximum potential and to acquire the knowledge and skills needed to:</p>			
A	• <i>Identify whole number quantities and measurement from least to most and greatest value.</i>	Appetizers 1 A; Main Dish Objectives 1 (Number Concepts) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
B	• <i>Identify least and greatest values represented in bar graphs and pictographs.</i>	Appetizers 5 A; 12 C; Main Dish Objectives 5 (Probability/Statistics) Lesson 1; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
C	• <i>Categorize rates of change as faster and slower.</i>			

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D	<ul style="list-style-type: none"> • <i>Continue a pattern of numbers or objects that could be extended infinitely.</i> 	Appetizers 2 B & 2 D; Main Dish Objective 2 (Mathematical Relations) Lessons 2 & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
E	<ul style="list-style-type: none"> • <i>Apply place-value concepts and numeration to counting, ordering and grouping.</i> 	Appetizers 1 A & B; 2 A; Main Dish Objectives 1 (Number Concepts) Lessons 1 & 2; 2 (Mathematical Relations) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
F	<ul style="list-style-type: none"> • <i>Estimate, approximate, round or use exact numbers as appropriate.</i> 	Appetizers 10 A, B, & D; Main Dish Objective 10 (Estimation) Lessons 1, 2, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
G	<ul style="list-style-type: none"> • <i>Describe the inverse relationship between addition and subtraction.</i> 	Appetizers 2 A; Main Dish Objective 2 (Mathematical Relations) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		
H	<ul style="list-style-type: none"> • <i>Demonstrate knowledge of basic facts in four basic operations.</i> 	Appetizers 6 A; 7 A; 8 A; 9 A; Main Dish Objectives 6 (Addition) Lesson 1; 7 (Subtraction) Lesson 1; 8 (Multiplication) Lesson 1; 9 (Division) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics; Doggie Bags CD-Rom		