

Grade Seven
Gourmet Curriculum Press, Inc.©
Correlations with Ohio
Instructional Reading Goals and Objectives

Strand One

The student will be able to . . .

1. describe and represent relationships with tables, graphs, rules, and words. **Appetizers, Main Dishes, Objectives 5 D Counting Arrangements, 12 B Graphs/Charts, Final Test, Reasonableness Problems, Journal Topics**
2. describe, extend, analyze, and create a wide variety of patterns. **Appetizers, Main Dishes, Objective 2 B Patterns, Final Test, Reasonableness Problems, Journal Topics**
3. explore and symbolize direct and inverse variation. **Appetizers, Main Dishes, Objective 2 A Rational Numbers, Final Test, Reasonableness Problems, Journal Topics**
4. extend the investigation of number patterns. **Appetizers, Main Dishes, Objective 2 B Patterns, Final Test, Reasonableness Problems, Journal Topics**
5. generate ordered pairs with and without a calculator to graph linear equations. **Appetizers, Main Dishes, Objectives 2 D Linear Equations, 2 E Ordered Pairs, Final Test, Reasonableness Problems, Journal Topics**
6. explore absolute value in the context of distance between points. **Appetizers, Main Dishes, Objectives 2 E Ordered Paris, 6 A Addition, 7 A Subtraction, Final Test, Reasonableness Problems, Journal Topics**
7. explore and describe in words simple and complex patterns in industrial technology and science.

Strand Two

The student will be able to . . .

1. use an open sentence (algebraic equation) to symbolize a problem situation and solve the equation to find a solution to the problem. **Appetizers, Main Dishes, Objectives 2 D Linear Equations, 11 A Basic Strategies, 12 A Solution Sentences, Final Test, Reasonableness Problems, Journal Topics**
2. validate solutions to problems in a variety of ways. **Appetizers, Main Dishes, Objective 13 A Reasonableness, Final Test, Reasonableness Problems, Journal Topics**
3. rephrase a problem as a simpler problem to find a method of solution. **Appetizers, Main Dishes, Objective 12 A Solution Sentences, Final Test, Reasonableness Problems, Journal Topics**

4. extend the application of previously learned strategies. **Appetizers, Main Dishes, Objective 11 A Basic Strategies, Final Test, Reasonableness Problems, Journal Topics**
5. identify problems that are similar in structure.

Strand Three

The student will be able to . . .

1. represent percent by proportions and algebraic equations and solve for missing terms. **Appetizers, Main Dishes, Objectives 2 C Ratios, 2 D Linear Equations, Final Test, Reasonableness Problems, Journal Topics**
2. solve problems and make applications involving percent.
3. solve and use proportions. **Appetizers, Main Dishes, Objective 2 C Ratios, Final Test, Reasonableness Problems, Journal Topics**
4. develop the concept of integers using concrete models, including number lines, and in the context of real-world situations. **Appetizers, Main Dishes, Objective 2 F Number Line, Final Test, Reasonableness Problems, Journal Topics**
5. compare, order, and determine the equivalence of whole numbers, fractions, decimals, percents, and integers. **Appetizers, Main Dishes, Objectives 1 A Compare, 1 C Fractional Relationships, Final Test, Reasonableness Problems, Journal Topics**
6. expand understanding of place value to include bases other than ten.
7. find square root using a calculator.
8. explore the concept of pi by comparing the measure of the diameter and circumference of circles. **Appetizers, Main Dishes, Objective 3 A Two/Three Dimensional Figures, Final Test, Reasonableness Problems, Journal Topics**
9. explore interpretations of addition and multiplication that are different for whole numbers and fractions.
10. develop and apply theories about primes, factors, and multiples in real-world and mathematical problem situations. **Appetizers, Main Dishes, Objectives 1 E Factor, 11 A Basic Strategies, Final Test, Reasonableness Problems, Journal Topics**
11. explore powers and scientific notation as alternate ways of writing numbers and in the context of calculators. **Appetizers, Main Dishes, Objective 11 D Probability/Statistics, Final Test, Reasonableness Problems, Journal Topics**

Strand Four

The student will be able to . . .

1. explore and verbalize relationships between different kinds of figures. **Appetizers, Main Dishes, Objective 3 A Two/Three Dimensions**

2. **Figures, Final Test, Reasonableness Problems, Journal Topics**
explore and describe procedures for changing one figure or shape to another. **Appetizers, Main Dishes, Objectives 3 B Translations/Reflections/Rotations, 3 C Similarity/Congruence/Symmetry, Final Test, Reasonableness Problems, Journal Topics**
3. develop minimum sets of properties that describe a geometric figure. **Appetizers, Main Dishes, Objective 3 A Two/Three Dimensional Figures, Final Test, Reasonableness Problems, Journal Topics**
4. develop definitions of common geometric figures. **Appetizers, Main Dishes, Objective 3 A Two/Three Dimensional Figures, Final Test, Reasonableness Problems, Journal Topics**
5. build the model of a figure given top, side, and front views. **Appetizers, Main Dishes, Objective 11 B Geometric Strategies, Final Test, Reasonableness Problems, Journal Topics**
6. validate fundamental geometric theorems using manipulative materials and informal arguments. **Appetizers, Main Dishes, Objective 3 A Two/Three Dimensional Figures, Final Test, Reasonableness Problems, Journal Topics**
7. visualize and describe the results of folding geometric figures. **Appetizers, Main Dishes, Objective 11 B Geometric Strategies, Final Test, Reasonableness Problems, Journal Topics**
8. use separation of rectangles as an area model of the distributive property. **Appetizers, Main Dishes, Objective 4 E Area, Final Test, Reasonableness Problems, Journal Topics**

Strand Five

The student will be able to . . .

1. use parentheses accurately to group numbers for applying operations.
2. apply formulas to problem situations. **Appetizers, Main Dishes, Objective 11 A Basic Strategies, Final Test, Reasonableness Problems, Journal Topics**
3. describe problem situations involving ratios, proportions, and percents with algebraic expressions.
4. solve linear equations with one variable by working backward (relate to inverse operations). **Appetizers, Main Dishes, Objectives 2 A Rational Numbers, 2 D Linear Equations, Final Test, Reasonableness Problems, Journal Topics**
5. evaluate algebraic expressions (simple substitutions).
6. interpret graphs of problem situations describing linear, quadratic, and exponential relationships. **Appetizers, Main Dishes, Objectives 5 D Analyze Data, 12 B Graphs/Charts, Final Test, Reasonableness Problems, Journal Topics**

7. construct graphs describing problem situations and assign and label scales to axes of graphs appropriately. **Appetizers, Main Dishes, Objective 12 B Graphs/Charts, Final Test, Reasonableness Problems, Journal Topics**
8. relate ratio and proportion concepts to variation situations, direct and inverse. **Appetizers, Main Dishes, Objective 2 C Ratios, Final Test, Reasonableness Problems, Journal Topics**

Strand Six

The student will be able to . . .

1. select and compute with appropriate standard or metric units to measure length, area, volume, weight, capacity, time, money, and temperature. **Appetizers, Main Dishes, Objectives 4 A Metric/Customary Units, 4 B Convert Metric Units, 4 C Convert Customary Units, Final Test, Reasonableness Problems, Journal Topics**
2. make appropriate judgments regarding accuracy and precision.
3. make reasonable estimates of measurements. **Appetizers, Main Dishes, Objectives 1 B Compare, 10 A Estimation, 13 A Reasonableness, Final Test, Reasonableness Problems, Journal Topics**
4. state and apply area formulas for the following regions: circular, rectangular, parallelogram, trapezoidal, and triangular. **Appetizers, Main Dishes, Objective 4 E Area, Final Test, Reasonableness Problems, Journal Topics**
5. apply volume formulas for the following: prisms, cylinders, and spheres. **Appetizers, Main Dishes, Objective 4 E Area, Final Test, Reasonableness Problems, Journal Topics**
6. determine formulas for surface area. **Appetizers, Main Dishes, Objectives 4 D Perimeter/Circumference, 8 A Multiplication, Final Test, Reasonableness Problems, Journal Topics**
7. explore what to measure and measure to calculate perimeters, areas, and volumes.
8. determine what to measure and measure to calculate perimeters, areas, and columns. **Appetizers, Main Dishes, Objectives 4 D Perimeter/Circumference, 4 E Area, Final Test, Reasonableness Problems, Journal Topics**

Strand Seven

The student will be able to . . .

1. perform, refine, and extend the objectives listed in previous grades.
2. adjust fractional number and decimal estimates in all operations. **Appetizers, Main Dishes, Objectives 6 Addition, 7 Subtraction, 8 Multiplication, 9 Division, Final Test, Reasonableness Problems,**

Journal Topics

3. estimate with percents, using 1%, 10%, and 50%, and multiples of these numbers. **Appetizers, Main Dishes, Objective 10 A Estimation, Final Test, Reasonableness Problems, Journal Topics**
4. use fractions, decimals, and percents equivalents interchangeably in making estimates. **Appetizers, Main Dishes, Objective 10 A Estimation, Final Test, Reasonableness Problems, Journal Topics**
5. estimate the square root of a given number to the nearest whole number or range of whole numbers. **Appetizers, Main Dishes, Objective 10 A Estimation, Final Test, Reasonableness Problems, Journal Topics**
6. use estimation to eliminate choices in multiple-choice tests. **Appetizers, Main Dishes, Objective 10 A Estimation, Final Test, Reasonableness Problems, Journal Topics**

Strand Eight

The student will be able to . . .

1. collect data and create the appropriate type of graph and use the appropriate scale. **Appetizers, Main Dishes, Objectives 5 D Analyze Data, 12 B Graphs/Charts, Final Test, Reasonableness Problems, Journal Topics**
2. create, read, and interpret tables, charts, diagrams, and maps. **Appetizers, Main Dishes, Objectives 5 D Analyze Data, 12 B Graphs/Charts, Final Test, Reasonableness Problems, Journal Topics**
3. identify the ordered pair for a point on a labeled coordinate plane. **Appetizers, Main Dishes, Objective 2 E Ordered Pairs, Final Test, Reasonableness Problems, Journal Topics**
4. calculate and explore relationships between the mean, median, mode, and range of a given set of numbers. **Appetizers, Main Dishes, Objective 5 E Means/Medians/Modes, Final Test, Reasonableness Problems, Journal Topics**
5. explore permutations and combinations and the relationships between them. **Appetizers, Main Dishes, Objective 3 B Similarity/Congruence/Symmetry, Final Test, Reasonableness Problems, Journal Topics**
6. make logical inferences from statistical data. **Appetizers, Main Dishes, Objective 5 C Predict Outcomes, Final Test, Reasonableness Problems, Journal Topics**
7. detect misuses of statistical or numerical information. **Appetizers, Main Dishes, Objective 11 D Probability/Statistics, Final Test, Reasonableness Problems, Journal Topics**
8. develop and interpret frequency tables. **Appetizers, Main Dishes, Objectives 5 D Analyze Data, 12 B Graphs/Charts, Final Test,**

9. **Reasonableness Problems, Journal Topics**
compute averages. **Appetizers, Main Dishes, Objective 5 E**
Means/Medians/Modes, Final Test, Reasonableness Problems, Journal
Topics