

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

Strand One

The student will be able to . . .

1. build simple functions using concrete models and generate a corresponding rule. **Appetizers, Main Dishes, Objective 2 B Patterns, Final Test, Reasonableness Problems, Journal Topics**
2. explore the relation between doubling the side of a square and/or other rectangular figures and the corresponding increase in area.
3. explore mathematical expressions of relations observed in other curricular domains. **Appetizers, Main Dishes, Objectives 2 A Rational Numbers, 2 B Patterns, 2 C Ratios, 2 D Linear Equations, Final Test, Reasonableness Problems, Journal Topics**
4. explore and describe in words simple and complex patterns in history and language arts. **Appetizers, Main Dishes, Objectives 2 Mathematical Relations, 3 Geometry, Final Test, Reasonableness Problems, Journal Topics**

Strand Two

The student will be able to . . .

1. extend the application of previously learned strategies. **All Objectives**
2. expand the repertoire of appropriate notations and methods for symbolizing a problem statement and the solution process.
3. identify needed and given information in a problem situation as well as irrelevant information. **Appetizers, Main Dishes, Objectives 11 A Basic Strategies, 11 B Geometric Strategies, Final Test, Reasonableness Problems, Journal Topics**
4. validate and generalize. **Appetizers, Main Dishes, Objectives 12 A Solution Sentences, 12 B Solution Sentence with Multiplication, Final Test, Reasonableness Problems, Journal Topics**

Strand Three

The student will be able to . . .

1. compute with whole numbers, fractions, and decimals. **Appetizers, Main Dishes, Objectives 1 A Compare, 1 B Round, 1 C Recognize Fractions, 1 D Compare Fractions, 6 A Add Numbers, 6 C Add Fractions, 6 D Add Decimals, 7 A Subtract Numbers, 7 B Subtract**

Fractions/Whole Numbers, Final Test, Reasonableness Problems, Journal Topics

2. explore concepts of percent, ratio, and proportions in the context of real-world situations. **Appetizers, Main Dishes, Objective 2 C Ratios, Final Test, Reasonableness Problems, Journal Topics**
3. use proportions in a wide variety of applications.
4. investigate relations between ratios, proportions, and percents. **Appetizers, Main Dishes, Objectives 1 E Fractions/Ratios/Percents, 2 C Ratios, Final Test, Reasonableness Problems, Journal Topics**
5. round, as appropriate to a problem situation, to any digit. **Appetizers, Main Dishes, Objectives 1 B Round, 10 A Front-End, 10 E Estimation with Multiplication, Final Test, Reasonableness Problems, Journal Topics**
6. change freely between fractions and decimals. **Appetizers, Main Dishes, Objectives 1 E Fractions/Ratios/Percents, 11 A Basic Strategies, Final Test, Reasonableness Problems, Journal Topics**
7. understand and describe in words the relations between addition, subtraction, multiplication, and division. **Appetizers, Main Dishes, Objectives 2 A Rational Numbers, 6 Addition, 7 Subtraction, 8 Multiplication, 9 Division, Final Test, Reasonableness Problems, Journal Topics**
8. understand and describe in words how fractions and decimals expand the whole number system to the system of non-negative rational numbers. **Appetizers, Main Dishes, Objective 1 Number Concepts, Final Test, Reasonableness Problems, Journal Topics**
9. be able to find a number between an two rational numbers. **Appetizers, Main Dishes, Objective 2 F Number Line, Final Test, Reasonableness Problems, Journal Topics**
10. explore and explain when order does and does not make a difference for the four fundamental operations. **Appetizers, Main Dishes, Objective 2 A Rational Numbers, Final Test, Reasonableness Problems, Journal Topics**
11. explore Roman numerals and contrast with the base ten number system.

Strand Four

The student will be able to . . .

1. measure angles in geometric figures and explore relationships between angle measure and other characteristics of the figure. **Appetizers, Main Dishes, Objective 3 D Angles/Triangles, Final Test, Reasonableness Problems, Journal Topics**
2. estimate the measure of angles and draw angles that approximate given measures. **Appetizers, Main Dishes, Objectives 3 D**

- Angles/Triangles, 11 B Geometric Concepts, Final Test, Reasonableness Problems, Journal Topics**
3. identify and distinguish among similar, congruent, and symmetric figures. **Appetizers, Main Dishes, Objective 3 C Similarity/Congruence/Symmetry, Final Test, Reasonableness Problems, Journal Topics**
 4. visualize and show the results of a rotation, translation, reflection, or stretching. **Appetizers, Main Dishes, Objective 3 B Translations/Reflections/Rotations, Final Test, Reasonableness Problems, Journal Topics**
 5. build models of three-dimensional figures, such as pyramids, cones, and prisms, with polygonal bases and investigate the properties associated with those figures. **Appetizers, Main Dishes, Objective 3 A Two/Three Dimensional Figures, Final Test, Reasonableness Problems, Journal Topics**
 6. explore properties that can be used to characterize or contrast different classes of figures. **Appetizers, Main Dishes, Objective 3 D Angles/Triangles, Final Test, Reasonableness Problems, Journal Topics**
 7. recognize, classify, and use characteristics of lines and simple two-dimensional figures. **Appetizers, Main Dishes, Objective 3 A Two/Three Dimensional Figures, Final Test, Reasonableness Problems, Journal Topics**

Strand Five

The student will be able to . . .

1. use the distributive property in arithmetic computations. **Appetizers, Main Dishes, Objective 2 A Rational Numbers, Final Test, Reasonableness Problems, Journal Topics**
2. construct tables to describe a problem situation. **Appetizers, Main Dishes, Objectives 5 B Analyze Data, 5 C Counting Arrangements, Final Test, Reasonableness Problems, Journal Topics**
3. use a variable to describe a generalization from a problem situation. **Appetizers, Main Dishes, Objective 2 D Linear Equations, Final Test, Reasonableness Problems, Journal Topics**
4. symbolize, using variables, the relations between addition, subtraction, multiplication, and division.
5. explore the use of parentheses on a calculator to change results of a computation.
6. solve linear equations using concrete representations. **Appetizers, Main Dishes, Objective 2 D Linear Equations, Final Test, Reasonableness Problems, Journal Topics**

Strand Six

The student will be able to meet any previous objective and, in addition . . .

1. select and use appropriate units and devices to measure length, area, volume, and weight. **Appetizers, Main Dishes, Objectives 4 B Convert Metric Units, 4 C Convert Customary Units, 4 D Perimeter/Circumference, 4 E Area/Volume, Final Test, Reasonableness Problems, Journal Topics**
2. explore and use formulas to compute areas and perimeters (circumferences) of common polygons (polygonal regions) and circles (circular regions). **Appetizers, Main Dishes, Objectives 4 D Perimeter/Circumference, 4 E Area/Volume, 11 B Geometric Strategies, Final Test, Reasonableness Problems, Journal Topics**
3. convert, compare, and compute with common units of measure within the same measurement system. **Appetizers, Main Dishes, Objectives 4 B Convert Metric Units, 4 C Convert Customary Units, Final Test, Reasonableness Problems, Journal Topics**
4. measure angles using a protractor.

Strand Seven

The student will be able to . . .

1. perform and extend the objectives listed in previous grades. **Appetizers, Main Dishes, All Objectives, Final Test, Reasonableness Problems, Journal Topics**
2. estimate the sum of several close addends by estimating an average and multiplying the average by the number of values. **Appetizers, Main Dishes, Objective 10 A Front-End, Final Test, Reasonableness Problems, Journal Topics**
3. estimate the sum of difference of mixed numbers by adding or subtracting the whole numbers and then adding or subtracting the fractions using their closest value, 1, $1/2$, or 1. **Appetizers, Main Dishes, Objectives 6 C Add Fractions, 7 D Estimation Strategies, Final Test, Reasonableness Problems, Journal Topics**
4. estimate the product or quotient of mixed numbers by rounding them to whole numbers. **Appetizers, Main Dishes, Objectives 10 E Estimate with Multiplication, 10 G Compatible Numbers, Final Test, Reasonableness Problems, Journal Topics**
5. estimate the product or quotient of decimals numbers by rounding them to a single decimal place and then performing the operation. **Appetizers, Main Dishes, Objective 1 B Round, Final Test, Reasonableness Problems, Journal Topics**
6. look for compatibles in multiplication and division to help perform these operations mentally. **Appetizers, Main Dishes, Objective 10 A**

7. **Front-End, Final Test, Reasonableness Problems, Journal Topics**
use estimation to eliminate choices in multiple-choice tests.
Appetizers, Main Dishes, Objective 10 Estimate, Final Test, Reasonableness Problems, Journal Topics

Strand Eight

The student will be able to . . .

1. collect data and create a circle graph. **Appetizers, Main Dishes, Objective 5 B Analyze, Final Test, Reasonableness Problems, Journal Topics**
2. explore circle graphs and use them to solve application problems. **Appetizers, Main Dishes, Objectives 5 B Analyze, 12 C Charts/Graphs, Final Test, Reasonableness Problems, Journal Topics**
3. read, interpret, and use tables, charts, maps, and graphs to identify patterns, note trends, and draw conclusions. **Appetizers, Main Dishes, Objectives 5 B Analyze, 12 C Charts/Graphs, Final Test, Reasonableness Problems, Journal Topics**
4. explore the concept of average and calculate the arithmetic mean and the mode of a given set of numbers. **Appetizers, Main Dishes, Objective 5 E Means/Medians/Modes, Final Test, Reasonableness Problems, Journal Topics**
5. explore changes in the mean and the mode when some data are changed. **Appetizers, Main Dishes, Objective 5 E Means/Medians/Modes, Final Test, Reasonableness Problems, Journal Topics**
6. construct a tree diagram to list alternatives and procedures. **Appetizers, Main Dishes, Objective 5 C Counting Arrangements, Final Test, Reasonableness Problems, Journal Topics**
7. read and construct scale drawings
8. investigate probabilities for the possible outcomes of a simple experiment. **Appetizers, Main Dishes, Objectives 5 A Determine Outcomes, 5 D Probability with Fractions, Final Test, Reasonableness Problems, Journal Topics**
9. make predictions of outcomes of experiments based on theoretical probabilities and explain actual outcomes. **Appetizers, Main Dishes, Objectives 5 A Determine Outcomes, 5 D Probability with Fractions, Final Test, Reasonableness Problems, Journal Topics**