Grade Three
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Correlations with Ohio
Instructional Math Goals and Objectives

Strand One
The student will be able to . . .

1. predict additional terms in a given pattern, describe how the pattern is created, and extend the pattern. **Appetizers, Main Dishes, Objective 2 B Inverse Operations with Multiplication and Division, Final Test, Reasonableness Problems, Journal Topics**
2. recognize multiplication patterns. **Appetizers, Main Dishes, Objectives 1 C Odds & Evens, 8 A Use Multiplication Concepts, Final Test, Reasonableness Problems, Journal Topics**
3. use patterns to make generalizations and predictions by
   a. determining the rule and identifying missing number in a sequence of numbers; **Appetizers, Main Dishes, Objectives 1 C Odds & Evens, 2 B Inverse Operations with Multiplication and Division, Final Test, Reasonableness Problems, Journal Topics, Doggie Bag CD Software**
   b. determining the rule and identifying missing numbers in a table of number pairs; and **Appetizers, Main Dishes, Objectives 1 C Odds & Evens, 2 B Inverse Operations with Multiplication and Division, Final Test, Reasonableness Problems, Journal Topics, Doggie Bag CD Software**
   c. by identifying missing elements in a pattern and justifying their inclusion. **Appetizers, Main Dishes, Objectives 1 C Odds & Evens, 2 B Inverse Operations with Multiplication and Division, 2 C Patterns, Final Test, Reasonableness Problems, Journal Topics, Doggie Bag CD Software**
4. make a table of values to record the pairing of members of two sets, determine the relationship (rule) between each pair, and use the rule to generate additional pairs. **Appetizers, Main Dishes, Objectives 1 C Odds & Evens, 2 B Inverse Operations with Multiplication and Division, 2 C Patterns, Final Test, Reasonableness Problems, Journal Topics, Doggie Bag CD Software**

Strand Two
The student will be able to . . .

1. select appropriate notation and methods for symbolizing the problem statement and the solution process. **Appetizers, Main Dishes,**

Objectives 11 A Strategies, 12 A Solution Sentences, Final Test, Reasonableness Problems, Journal Topics

2. look for a pattern to predict a solution. **Appetizers, Main Dishes, Objective 2 B Inverse Operations with Multiplication and Division, Final Test, Reasonableness Problems, Journal Topics**
3. role play or use appropriate materials to find the solution to a problem. **Appetizers, Main Dishes, Objective 12 B Recognize Models, Final Test, Reasonableness Problems, Journal Topics**
4. make and use a Venn diagram to collect and sort information. **Journal Topics**
5. extend the guess-and-check procedure by recording guesses and checks to help make better guesses until the solution is reached. **Appetizers, Main Dishes, Objective 10 Estimation, Final Test, Reasonableness Problems, Journal Topics**
6. make a drawing of the information in the problem to clarify relationships. **Appetizers, Main Dishes, Objectives 1 D Fractions, 5 A Charts, 6 A Rename, 7 A Subtract Whole Numbers, 8 A Use Multiplication Concepts, 9 A Recognize Division, 12 B Recognize Models, Final Test, Reasonableness Problems, Journal Topics**
7. use more than one strategy to solve a given problem. **Appetizers, Main Dishes, Objective 11 A Strategies, 11 B Additional Information Problems, 11 C Missing Information Problems, 11 D Two-Step Problems, Final Test, Reasonableness Problems, Journal Topics**
8. use a single strategy to solve different kinds of problems. **Appetizers, Main Dishes, Objectives 11 A Strategies, 12 A Solution Sentences, Final Test, Reasonableness Problems, Journal Topics**
9. identify which questions could be answered given certain information. **Appetizers, Main Dishes, Objective 12 A Solution Sentences, Final Test, Reasonableness Problems, Journal Topics**
10. develop a convincing written argument for the correctness of a solution. **Journal Topics**

Strand Three
The student will be able to . . .

1. add and subtract numbers fluently using any strategy. **Appetizers, Main Dishes, Objectives 6 B Add Whole Numbers, 7 B Subtract Money, Final Test, Reasonableness Problems, Journal Topics**
2. relate addition and subtraction statements to each other. **Appetizers, Main Dishes, Objective 2 A Inverse Operations with Multiplication and Division, Final Test, Reasonableness Problems, Journal Topics**
3. from situations created in the classroom
   a. develop models of multiplication and division (arrays).
   Appetizers, Main Dishes, Objectives 8 A Use Multiplication Concepts,

9 A Recognize Division, Final Test, Reasonableness Problems, Journal Topics

b. use invented and conventional symbols to represent multiplication and division. **Appetizers, Main Dishes, Objectives 8 A Use Multiplication Concepts, 9 A Recognize Division, Final Test, Reasonableness Problems, Journal Topics**

c. describe multiplication and division in words. **Journal Topics**

4. translate real-life situations involving multiplication and division into conventional mathematics symbols. **Appetizers, Main Dishes, Objective 12 D Story Problems, Final Test, Reasonableness Problems, Journal Topics**
5. relate multiplication to skip counting. **Appetizers, Main Dishes, Objective 2 C Patterns, Final Test, Reasonableness Problems, Journal Topics**
6. multiply using the pocket multiplier. **Appetizers, Main Dishes, Objective 8 A Use Multiplication Concepts, Final Test, Reasonableness Problems, Journal Topics**
7. multiply and divide using a calculator. **Appetizers, Main Dishes, Objectives 8 A Use Multiplication Concepts, 9 A Recognize Division, Final Test, Reasonableness Problems, Journal Topics**
8. recall multiplication and division facts through 12 x 12, using strategies such as
   a. commutative property **Appetizers, Main Dishes, Objective 2 A Inverse Operations with Multiplication and Division, Final Test, Reasonableness Problems, Journal Topics**
   b. distributive property **Appetizers, Main Dishes, Objective 2 A Inverse Operations with Multiplication and Division, Final Test, Reasonableness Problems, Journal Topics**
   c. anchor facts
   d. squares
9. multiply using paper-and-pencil algorithms. **Appetizers, Main Dishes, Objectives 8 A Use Multiplication Concepts, 8 B Multiply, Final Test, Reasonableness Problems, Journal Topics**
10. use conventional symbols to represent fractions. **Appetizers, Main Dishes, Objective 1 D Fractions, Final Test, Reasonableness Problems, Journal Topics**
11. order fractions on the basis of concrete materials. **Appetizers, Main Dishes, Objective 1 D Fractions, Final Test, Reasonableness Problems, Journal Topics**
12. develop the concept of tenths and hundredths using models. **Appetizers, Main Dishes, Objective 1 F Decimal, Final Test, Reasonableness Problems, Journal Topics**
13. order whole numbers, fractions, and decimals (tenths and hundredths) on the number line. **Appetizers, Main Dishes, Objective 2 C Patterns,**

Final Test, Reasonableness Problems, Journal Topics

14. translate freely between words and symbols in naming numbers. **Appetizers, Main Dishes, Objective 1 E Translate Numbers, Final Test, Reasonableness Problems, Journal Topics**
15. relate even numbers to division by two. **Appetizers, Main Dishes, Objective 9 A Recognize Division, Final Test, Reasonableness Problems, Journal Topics**
16. use the symbols $<$, $\leq$, $\geq$, and $=$ in describing order as well as the terms "at least" and "at most". **Appetizers, Main Dishes, Objective 1 A Compare Whole Numbers, Final Test, Reasonableness Problems, Journal Topics**

Strand Four
The student will be able to . . .

1. explore properties of geometric figures and relationships by measuring, coloring, folding, cutting, making models, and using tiles and geoboards. **Appetizers, Main Dishes, Objectives 3 A Two and Three Dimensional Figures, 3 B Two and Three Dimensional Shapes, Final Test, Reasonableness Problems, Journal Topics**
2. investigate angles using models, paper folding, drawings, and computer graphics. **Appetizers, Main Dishes, Objectives 3 A Two and Three Dimensional Figures, 3 B Two and Three Dimensional Shapes, Final Test, Reasonableness Problems, Journal Topics**
3. build a solid to match a given solid using cubes.
4. describe a three-dimensional object from different perspectives. **Appetizers, Main Dishes, Objective 3 A Two and Three Dimensional Figures, Final Test, Reasonableness Problems, Journal Topics**
5. investigate area by covering regions with standard and non-standard units. **Appetizers, Main Dishes, Objective 4 B Length, Final Test, Reasonableness Problems, Journal Topics**
6. use mathematically correct names for common geometric figures. **Appetizers, Main Dishes, Objective 3 A Two and Three Dimensional Figures, Final Test, Reasonableness Problems, Journal Topics**
7. identify and count common overlapping figures in the environment. **Appetizers, Main Dishes, Objective 3 B Two and Three Dimensional Shapes, Final Test, Reasonableness Problems, Journal Topics**

Strand Five
The student will be able to . . .

1. explain in words thinking strategies for making computations. **Journal Topics, All Objectives**

2. explore calculator keys other than = that perform an operation. **All Objectives**
3. understand the use of letters in statements such as ab=12 or 3c=d and find a when b is given, etc.

Strand Six
The student will be able to . . .

1. continue explorations of length, capacity, and weight, and extend familiarity of units to include kilometer, meter, mile, yard, foot, gallon, gram, ounce, and fractional parts of each. **Appetizers, Main Dishes, Objectives 4 B Length, 4 D Weight/Mass, Final Test, Reasonableness Problems, Journal Topics, Doggie Bag CD Software**
2. count collections of coins and bills which include one, five, and ten dollar bills and compare values. **Appetizers, Main Dishes, Objectives 6 B Add Whole Numbers, 7 B Subtract Money, 9 A Recognize Division, Final Test, Reasonableness Problems, Journal Topics, Doggie Bag CD Software**
3. explore common temperatures using both Fahrenheit and Celsius scales. **Appetizers, Main Dishes, Objective 4 C Temperature, Final Test, Reasonableness Problems, Journal Topics, Doggie Bag CD Software**
4. read time on digital and dial timepieces and determine amount of time elapsed. **Appetizers, Main Dishes, Objective 4 A Time, Final Test, Reasonableness Problems, Journal Topics, Doggie Bag CD Software**
5. illustrate the approximate size of units (inch, centimeter, meter, and yard). **Appetizers, Main Dishes, Objective 4 B Length, Final Test, Reasonableness Problems, Journal Topics**
6. use string, tiles, and blocks to explore perimeter, area, and volume. **Appetizers, Main Dishes, Objective 4 E Perimeter, Final Test, Reasonableness Problems, Journal Topics**
7. make change using coins. **Doggie Bag CD Software**

Strand Seven
The student will be able to . . .

1. perform and extend the objectives listed in previous grades. **All Objectives**
2. use front-end digits to estimate addition with several addends. **Appetizers, Main Dishes, Objective 10 C Estimate Front-end, Final Test, Reasonableness Problems, Journal Topics**
3. round factors and use multiples of ten to estimate products. **Appetizers, Main Dishes, Objectives 10 B Estimate Rounding in Addition, 10 D Estimate Rounding in Subtraction, Final Test, Reasonableness Problems, Journal Topics**

4. explore the use of estimation in problem solving and know when an estimate is appropriate. **Appetizers, Main Dishes, Objective 10 A Estimate or Calculate, Reasonableness Problems, Journal Topics**
5. add strings of numbers mentally by finding groups of tens.
6. subtract mentally using multiples of ten.
7. explore multiplication using the strategies without reference to actual objects. **Appetizers, Main Dishes, Objective 8 B Multiply, Final Test, Reasonableness Problems, Journal Topics**

Strand Eight
The student will be able to . . .

1. read and interpret pictographs in which pictures represent more than a single unit. **Appetizers, Main Dishes, Objectives 5 A Charts, 12 C Charts, Final Test, Reasonableness Problems, Journal Topics**
2. create, read, and interpret tables and charts. **Appetizers, Main Dishes, Objectives 5 A Charts, 12 C Charts, Final Test, Reasonableness Problems, Journal Topics**
3. explore bar graphs (scaled by one) by making identifications, comparisons, and predictions. **Appetizers, Main Dishes, Objectives 5 A Charts, 12 C Charts, Final Test, Reasonableness Problems, Journal Topics**
4. identify information on labeled picture map using a picture-symbol key.
5. collect and record data on the frequency of events. **Appetizers, Main Dishes, Objectives 5 A Charts, 12 C Charts, Final Test, Reasonableness Problems, Journal Topics**
6. investigate, display, and record all possible arrangements of a given set of objects. **Appetizers, Main Dishes, Objective 2 D Number Line, Final Test, Reasonableness Problems, Journal Topics**
7. translate freely among pictographs, tables, charts, and bar graphs. **Appetizers, Main Dishes, Objectives 5 A Charts, 12 C Charts, Final Test, Reasonableness Problems, Journal Topics**