

Catawba County Schools Math Pacing Guides

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| Grade Three | | Unit 9 Multiplication and Division | |
| Conceptual Overview | | <ol style="list-style-type: none"> 1. Recall basic multiplication and division with 0 through 10. 2. Write multiplication equations to represent repeated groups, arrays, and area models. 3. Write related addition and multiplication, AND multiplication and division equations. 4. Solve a variety of word problems involving multiplication and division, including comparison and multistep word problems. | |
| Unit 9 16 Days (Feb. 8 - Mar. 2) | | <ol style="list-style-type: none"> 1. The Remaining Multiplications (Lessons 1-5) 2. Multiplication Comparisons and Square Numbers (Lessons 6-9) 3. Word Problems. (Lessons 10-14) | |
| S C O S G O A L S | Number and Operations EOG 35-40% | 1.03a Strategies for multiplying and dividing numbers 1.04 Use basic properties (identity, commutative, associative, order of operations) for addition, subtraction, multiplication, and division 1.06 Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and pencil and paper | |
| | Measurement EOG 10-12% | | |
| | Geometry EOG 12-15% | | |
| | Data and Probability 12-15% | 4.01 Collect, organize, analyze and display data (including circle graphs and tables) to solve problems. | |
| | Algebra 20-25% | 5.01 Describe and extend numeric and geometric patterns 5.03 Use symbols to represent unknown quantities in number sentences 5.04 Find the value of the unknown in the number sentence | |
| Vocabulary | | Unit 9 Multiplication and Division with 6, 7, and 8 and Problem Solving | |
| | | Math Expressions | NC SCOS 1.03a, 1.04, 1.06, 4.04, 5.01, 5.03, 5.04 |
| | | area | <i>arrays</i> |
| | | area | <i>about</i> |
| | | area problem | <i>act out the problem</i> |
| | | array problem | <i>approximately</i> |
| | | Distributive Property of Multiplication | <i>balance</i> |
| | | equation | <i>compose</i> |

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| | evaluate | <i>decompose</i> | |
| | expression | <i>demonstrate</i> | |
| | Fast-Area Drawing | <i>difference</i> | |
| | Fast-Array Drawing | <i>dividend</i> | |
| | fraction | <i>dividend</i> | |
| | function table | <i>division</i> | |
| | half | <i>divisor</i> | |
| | input | <i>equation</i> | |
| | length | <i>estimate</i> | |
| | output | <i>estimate</i> | |
| | perimeter | <i>evaluate</i> | |
| | repeated-groups problem | <i>explain</i> | |
| | rule | <i>expression</i> | |
| | square number | <i>factor</i> | |
| | square unit | <i>fair share</i> | |
| | times | <i>form</i> | |
| | twice | <i>group</i> | |
| | variable | <i>guess and test/check</i> | |
| | width | <i>justify</i> | |
| | | <i>leftover</i> | |
| | | <i>make a diagram/picture</i> | |
| | | <i>make a table/chart/graph</i> | |
| | | <i>make an organized list</i> | |
| | | <i>multiples</i> | |
| | | <i>multiply</i> | |
| | | <i>number sentence</i> | |
| | | <i>parenthesis</i> | |
| | | <i>pattern</i> | |
| | | <i>pattern core</i> | |
| | | <i>patterns</i> | |
| | | <i>product</i> | |
| | | <i>prove</i> | |
| | | <i>quotient</i> | |
| | | <i>reasonable</i> | |
| | | <i>remainder</i> | |
| | | <i>repeated addition</i> | |
| | | <i>repeated subtraction</i> | |

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| | | <i>sets</i> | |
| | | <i>share equally</i> | |
| | | <i>skip count</i> | |
| | | <i>solve a simpler problem</i> | |
| | | <i>sum</i> | |
| | | <i>symbol</i> | |
| | | <i>unknown</i> | |
| | | <i>using objects</i> | |
| | | <i>variable</i> | |
| | | <i>work backwards</i> | |
| | | | |
| Essential Questions | <ol style="list-style-type: none"> 1. How can you collect data? 2. What is the best way to display different types of data? 3. How do you read a circle graph in order to interpret data? 4. How do you represent categorical and numerical data? | | |