

# CURRICULUM OVERVIEW

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## SPARK Mathematics Grade 3



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**Unit 1: Interpreting Products of Whole Numbers (3.OA.1)****Assignments**

- |   |   |
|---|---|
| 1. Pre-Test: Interpreting Products of Whole Numbers (3.OA.1)*   | 3. Post-Test: Interpreting Products of Whole Numbers (3.OA.1)       |
| 2. Recognizing and Using Multiplication Terms and Sign (3.OA.1) | 4. Understanding What Kind of Operation Multiplication Is (3.OA.1)* |

**Unit 2: Interpreting Whole-Number Quotients (3.OA.2)****Assignments**

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|--|--|
| 1. Pre-Test: Interpreting Whole-Number Quotients (3.OA.2)* | 3. Post-Test: Interpreting Whole-Number Quotients (3.OA.2) |
| 2. Recognizing When Division is Appropriate (3.OA.2)       | 4. Solving Word Problems that Use Division (3.OA.2)*       |

**Unit 3: Multiplication and Division Within 100 (3.OA.3)****Assignments**

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|--|---|
| 1. Pre-Test: Multiplication and Division Within 100 (3.OA.3)*  | 3. Post-Test: Multiplication and Division Within 100 (3.OA.3) |
| 2. Deciding Whether to Use Multiplication or Division (3.OA.3) | 4. Choosing Multiplication and Division Strategies (3.OA.3)*  |

**Unit 4: Determining an Unknown Whole Number (3.OA.4)****Assignments**

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|--|--|
| 1. Pre-Test: Determining an Unknown Whole Number (3.OA.4)* | 3. Post-Test: Determining an Unknown Whole Number (3.OA.4) |
| 2. Relating Multiplication and Division (3.OA.4)           | 4. Finding the Missing Number (3.OA.4)*                    |

**Unit 5: Applying Properties of Operations (3.OA.5)****Assignments**

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|--|--|
| 1. Pre-Test: Applying Properties of Operations (3.OA.5)* | 3. Post-Test: Applying Properties of Operations (3.OA.5) |
| 2. Identify Properties of Multiplication (3.OA.5)        | 4. Apply the Properties of Multiplication (3.OA.5)*      |

**Unit 6: Division as An Unknown-Factor Problem (3.OA.6)****Assignments**

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|--|--|
| 1. Pre-Test: Division as an Unknown-Factor Problem (3.OA.6)* | 3. Post-Test: Division as an Unknown-Factor Problem (3.OA.6) |
| 2. The Relationship of Multiplication and Division (3.OA.6)  | 4. Recognizing Related Multiplication Facts (3.OA.6)*        |

**Unit 7: Strategies for Multiplying and Dividing Within 100 (3.OA.7)****Assignments**

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|---|--|
| 1. Pre-Test: Strategies for Multiplying and Dividing Within 100 (3.OA.7)* | 3. Post-Test: Strategies for Multiplying and Dividing Within 100 (3.OA.7)  |
| 2. How Multiplication and Division Relate (3.OA.7)                        | 4. Different Strategies for Multiplication and Division Problems (3.OA.7)* |

**Unit 8: Solving Two-Step Word Problems (3.OA.8)****Assignments**

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|---|---|
| 1. Pre-Test: Solving Two-Step Word Problems (3.OA.8)* | 3. Post-Test: Solving Two-Step Word Problems (3.OA.8) |
| 2. Word Problems in Two Steps (3.OA.8)                | 4. Solving Two-Step Word Problems (3.OA.8)*           |

**Unit 9: Identifying and Explaining Arithmetic Patterns (3.OA.9)****Assignments**

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|---|---|
| 1. Pre-Test: Identifying and Explaining Arithmetic Patterns (3.OA.9)* | 3. Post-Test: Identifying and Explaining Arithmetic Patterns (3.OA.9) |
| 2. Determining the Rules (3.OA.9)                                     | 4. Determining a Pattern (3.OA.9)*                                    |

**Unit 10: Using Place Value (3.NBT.1)****Assignments**

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|--|---|
| 1. Pre-Test: Using Place Value (3.NBT.1)*                | 3. Post-Test: Using Place Value (3.NBT.1)               |
| 2. Rounding Two- and Three-Digit Whole Numbers (3.NBT.1) | 4. Rounding Three-Digit Whole Numbers to 100 (3.NBT.1)* |

**Unit 11: Add and Subtract Within 100 (3.NBT.2)****Assignments**

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|---|---|
| 1. Pre-Test: Add and Subtract Within 100 (3.NBT.2)*               | 3. Post-Test: Add and Subtract Within 100 (3.NBT.2) |
| 2. Solving Word Problems Using Addition and Subtraction (3.NBT.2) | 4. Regrouping to Solve Word Problems (3.NBT.2)*     |

**Unit 12: Multiplying by Multiples of 10 (3.NBT.3)****Assignments**

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|--|--|
| 1. Pre-Test: Multiplying by Multiples of 10 (3.NBT.3)*     | 3. Post-Test: Multiplying by Multiples of 10 (3.NBT.3)   |
| 2. Using Basic Facts and Place Value to Multiply (3.NBT.3) | 4. Using Properties of Operations to Multiply (3.NBT.3)* |

**Unit 13: Understanding Fractions as Numbers (MLMA\_3.NF.1)****Assignments**

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|--|--|
| 1. Pre-Test: Understanding Fractions as Numbers (3.NF.1)*          | 3. Post-Test: Understanding Fractions as Numbers (3.NF.1)    |
| 2. Identifying and Classifying Whole Numbers as Fractions (3.NF.1) | 4. Using Terminology and Building Common Fractions (3.NF.1)* |

**Unit 14: Fractions on a Number Line (3.NF.2)****Assignments**

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|---|---|
| 1. Pre-Test: Fractions on a Number Line (3.NF.2)* | 3. Post-Test: Fractions on a Number Line (3.NF.2) |
| 2. Locating a Fraction on a Number Line (3.NF.2)  | 4. Identify a Fraction on a Number Line (3.NF.2)* |

**Unit 15: Equivalence of Fractions and Comparing by Size (3.NF.3)****Assignments**

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|---|---|
| 1. Pre-Test: Equivalence of Fractions and Comparing by Size (3.NF.3)* | 3. Post-Test: Equivalence of Fractions and Comparing by Size (3.NF.3) |
| 2. Determining Equivalent Fractions and Comparing (3.NF.3)            | 4. Relating Fractions to Whole Numbers (3.NF.3)*                      |

**Unit 16: Telling and Writing Time (3.MD.1)****Assignments**

- |   |  |
|---|--|
| 1. Pre-Test: Telling and Writing Time (3.MD.1)*       | 3. Post-Test: Telling and Writing Time (3.MD.1)                  |
| 2. Reading Time on Analog and Digital Clocks (3.MD.1) | 4. Determining Start and Finish Times and Elapsed Time (3.MD.1)* |

**Unit 17: Measuring and Estimating Volumes and Masses (3.MD.2)****Assignments**

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|--|--|
| 1. Pre-Test: Measuring and Estimating Volumes and Masses (3.MD.2)* | 3. Post-Test: Measuring and Estimating Volumes and Masses (3.MD.2) |
| 2. Estimating Mass and Liquid Capacity (3.MD.2)                    | 4. Word Problems and Abbreviations for Units of Measure (3.MD.2)*  |

**Unit 18: Scaled Picture Graphs and Bar Graphs (3.MD.3)****Assignments**

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|---|---|
| 1. Pre-Test: Scaled Picture Graphs and Bar Graphs (3.MD.3)* | 3. Post-Test: Scaled Picture Graphs and Bar Graphs (3.MD.3) |
| 2. Solving Word Problems Using a Bar Graph (3.MD.3)         | 4. Finding the Correct Picture Graph (3.MD.3)*              |

**Unit 19: Generating Measurement Data (3.MD.4)****Assignments**

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|--|---|
| 1. Pre-Test: Generating Measurement Data (3.MD.4)* | 3. Post-Test: Generating Measurement Data (3.MD.4)          |
| 2. Measuring Objects to a Quarter-Inch (3.MD.4)    | 4. Reading and Interpreting Data from a Line Plot (3.MD.4)* |

**Unit 20: Area as an Attribute of Plane Figures (3.MD.5)****Assignments**

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| 1. Pre-Test: Area as an Attribute of Plane Figures (3.MD.5)* | 3. Post-Test: Area as an Attribute of Plane Figures (3.MD.5)             |
| 2. Recognizing a Square Unit (3.MD.5)                        | 4. Knowing Square Units and Using Them to Find Flat Shape Area (3.MD.5)* |

**Unit 21: Measuring Areas Through Square Units (3.MD.6)****Assignments**

- |   |   |
|---|---|
| 1. Pre-Test: Measuring Areas Through Square Units (3.MD.6)* | 3. Post-Test: Measuring Areas Through Square Units (3.MD.6) |
| 2. Finding Areas of Plane Figures (3.MD.6)                  | 4. Measuring Area and Labeling Measurements (3.MD.6)*       |

**Unit 22: Relating Area to Multiplication and Addition (3.MD.7)****Assignments**

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|---|--|
| 1. Pre-Test: Relating Area to Multiplication and Addition (3.MD.7)* | 4. Using Tiling and Area Models (3.MD.7)*              |
| 2. Finding Area by Tiling and Multiplying Side Lengths (3.MD.7)     | 5. Solving Area Problems from the Real World (3.MD.7)* |
| 3. Post-Test: Relating Area to Multiplication and Addition (3.MD.7) | 6. Solving Word Problems Involving Area (3.MD.7)*      |

**Unit 23: Solving Real-World Perimeter Problems (3.MD.8)****Assignments**

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|--|--|
| 1. Pre-Test: Solving Real-World Perimeter Problems (3.MD.8)* | 3. Post-Test: Solving Real-World Perimeter Problems (3.MD.8) |
| 2. Finding Perimeters and Side Lengths (3.MD.8)              | 4. Analyzing Different Rectangles (3.MD.8)*                  |

**Unit 24: Shapes' Shared Attributes (3.G.1)****Assignments**

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|---|---|
| 1. Pre-Test: Shapes' Shared Attributes (3.G.1)* | 3. Post-Test: Shapes' Shared Attributes (3.G.1) |
| 2. Finding Shapes' Common Attributes (3.G.1)    | 4. Defining Larger Categories (3.G.1)*          |

**Unit 25: Partitioning Shapes (3.G.2)****Assignments**

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|--|--|
| 1. Pre-Test: Partitioning Shapes (3.G.2)*              | 3. Post-Test: Partitioning Shapes (3.G.2)      |
| 2. Dividing Shapes into Parts with Equal Areas (3.G.2) | 4. Describing Areas as Unit Fractions (3.G.2)* |

(\*) Indicates alternative assignment