Grade Level: 3 **Course Title: Math** **Topic/Concept: Addition & Subtraction Strategies**

Time Allotment: 2 Weeks **Unit Sequence: 1**

Major Concepts to be learned:

- Addition Facts and Strategies
- Subtraction Facts and Strategies

Expected Skills to be demonstrated:

- Identify number patterns on the addition table.
- Students will round to the nearest ten or hundred and estimate sums or differences.
- Students will be able to estimate sums and differences.
- Students will be able to use properties and strategies to add and subtract.

PA Standards/Anchors:	Eligible Content:
CC.2.1.3	CC.2.1.3.B.1 CC.2.2.3.A.1 CC.2.2.3.A.4

Instructional Strategies:	Assessments:
• Co-Teaching • Technology: IXL, 99 Math • Group discussion • Hands-on activity • Graphic organizers • Base ten blocks • Problem solving activities	• Quiz • Test • Project: By the Numbers • Basic Fact Timed Assessment

Grade Level: 3 | **Course Title: Math** | **Topic/Concept: Understand Multiplication**

Time Allotment: 2 Weeks | **Unit Sequence: 2**

Major Concepts to be learned:

- Understand the concept of multiplication as equal groups/repeated addition.
- Represent multiplication in a variety of ways.
- Understand the different properties of multiplication.

Expected Skills to be demonstrated:

- Students will be able to count equal groups.
- Students will be able to relate addition and multiplication.
- Students will be able to represent multiplication with number lines, bar models and arrays.
- Students will be able to understand Commutative, Identity, and Zero Properties of Multiplication.

PA Standards/Anchors:	Eligible Content:
CC.2.1.3	CC.2.1.3.B.1 CC.2.2.3.A.3 CC.2.2.3.A.1 CC.2.2.3.A.4 CC.2.2.3.A.2

Instructional Strategies:	Assessments:
• Co-Teaching • Technology: IXL, 99 Math • Group discussion • Hands-on activity • Graphic organizers • Problem solving activities	• Test • Quiz • Teacher Observation

Grade Level: 3 | **Course Title: Math** | **Topic/Concept: Multiplication Facts & Strategies**

Time Allotment: 3 Weeks | **Unit Sequence:3**

Major Concepts to be learned:

- Multiplication with factors 2 through 12.
- Patterns on a Multiplication Table
- Properties of Multiplication

Expected Skills to be demonstrated:

- Students will be able to multiply with factors of 2, 4, 5, 10, 3, 6, 7, 8, 9, 11, 12.
- Students will be able to understand the Distributive Property.
- Students will be able to understand the Associative Property of Multiplication.
- Students will be able to recognize patterns on a multiplication table.

PA Standards/Anchors:

CC.2.1.3

Eligible Content:

CC.2.1.3.B.1
CC.2.2.3.A.3
CC.2.2.3.A.1
CC.2.2.3.A.4
CC.2.2.3.A.2

Instructional Strategies:

- Co-teaching
- Cooperative Groups
- Technology – IXL, 99 Math
- Group discussion
- Hands-on activity
- Graphic organizers
- Problem solving activities

Assessments:

- Test
- Quiz
- Teacher Observation
- Basic Fact Multiplication Assessment

Grade Level: 3 **Course Title: Math** **Topic/Concept: Multiplication with Multiples of 10 & 100**

Time Allotment: 2 Weeks **Unit Sequence: 4**

Major Concepts to be learned:

- Distributive Property
- Multiples of 10 and 100

Expected Skills to be demonstrated:

- The students will be able to use the Distributive Property to multiply with multiples of 10.
- The students will be able to use place value strategies to multiply with multiples of 10.
- The students will be able to multiply multiples of 10 and 100 by a 1-digit number.
- The students will be able to use the Distributive Property to multiply a 2-digit and a 1-digit number.

PA Standards/Anchors:	Eligible Content:
CC.2.1.3	CC.2.1.3.B.1 CC.2.2.3.A.3 CC.2.2.3.A.1 CC.2.2.3.A.4 CC.2.2.3.A.2

Instructional Strategies:	Assessments:
• Co-teaching • Cooperative Groups • Technology – IXL, 99 Math • Group discussion • Hands-on activity • Graphic organizers • Problem solving activities	• Test • Quiz • Teacher Observation • Basic Multiplication Fact Assessment

Grade Level: 3 | **Course Title: Math** | **Topic/Concept: Understand Division**

Time Allotment: 3 Weeks | **Unit Sequence: 5**

Major Concepts to be learned:

- Representation of Division in a variety of ways
- Application of Rules and Relation of Division to other Operations

Expected Skills to be demonstrated:

- Students will be able to represent division with bar models and arrays,
- Students will be able to find the size of equal groups and the number of equal groups.
- Students will be able to relate division to subtraction and multiplication.
- Students will be able to write related facts and apply division rules for 1 and 0.

PA Standards/Anchors:	Eligible Content:
CC.2.1.3	CC.2.1.3.B.1 CC.2.2.3.A.3 CC.2.2.3.A.1 CC.2.2.3.A.4 CC.2.2.3.A.2

Instructional Strategies:	Assessments:
• Co-teaching • Cooperative Groups • Technology – IXL, 99 Math • Group discussion • Hands-on activity • Graphic organizers • Problem solving activities	• Test • Quiz • Teacher Observation

Grade Level: 3 **Course Title: Math** **Topic/Concept: Division Facts & Strategies**

Time Allotment: 3 Weeks **Unit Sequence: 6**

Major Concepts to be learned:

- Divide by whole numbers 2 through 12.
- Effective Division Strategies

Expected Skills to be demonstrated:

- Students will be able to divide by 2, 10, 5, 3, 4, 6, 7, 8, 9, 11, and 12.
- Students will be able to apply effective division strategies for various divisors.

PA Standards/Anchors:

CC.2.1.3
CC.2.2.3

Eligible Content:

CC.2.1.3.B.1
CC.2.2.3.A.3
CC.2.2.3.A.1
CC.2.2.3.A.4
CC.2.2.3.A.2

Instructional Strategies:

- Co-teaching
- Cooperative Groups
- Technology – IXL, 99 Math
- Group discussion
- Hands-on activity
- Graphic organizers
- Problem solving activities

Assessments:

- Test
- Quiz
- Teacher Observation

Grade Level: 3 **Course Title: Math** **Topic/Concept: Apply Multiplication and Division**

Time Allotment: 2 Weeks **Unit Sequence: 7**

Major Concepts to be learned:

- Multiplication Comparisons, Patterns, Rules and Unknown Numbers
- Two-step Multiplication and Division Word Problems

Expected Skills to be demonstrated:

- Students will be able to make comparisons with multiplication.
- Students will be able to identify, create and extend patterns.
- Students will be able to determine multiples, use divisibility rules and find unknown numbers.
- Students will be able to solve two-step multiplication and division word problems.

PA Standards/Anchors:

CC.2.1.3
CC.2.2.3

Eligible Content:

CC.2.1.3.B.1
CC.2.2.3.A.3
CC.2.2.3.A.1
CC.2.2.3.A.4
CC.2.2.3.A.2

Instructional Strategies:

- Co-teaching
- Cooperative Groups
- Technology – IXL, 99 Math
- Group discussion
- Hands-on activity
- Graphic organizers
- Problem solving activities

Assessments:

- Test
- Quiz
- Teacher Observation

Grade Level: 3 **Course Title: Math** **Topic/Concept: Relate Multiplication and Area**

Time Allotment: 2 Weeks **Unit Sequence: 8**

Major Concepts to be learned:

- Concepts of Area

Expected Skills to be demonstrated:

- Students will be able to measure area by counting unit squares.
- Students will be able to use relate area to addition and multiplication.
- Students will be able to understand and solve problems with area.
- Students will be able to find area of combined rectangles.

PA Standards/Anchors:	Eligible Content:
CC.2.1.3 CC.2.4.3	CC.2.1.3.B.1 CC.2.2.3.A.3 CC.2.4.3.A.6 CC.2.4.3.A.5

Instructional Strategies:	Assessments:
• Co-teaching • Cooperative Groups • Technology – IXL • Group discussion • Hands-on activity • Graphic organizers – grid paper • Problem solving activities	• Test • Quiz • Teacher Observation

Grade Level: 3 **Course Title: Math** **Topic/Concept: Understand Perimeter**

Time Allotment: 2 Weeks **Unit Sequence: 9**

Major Concepts to be learned:

- Concepts of Perimeter

Expected Skills to be demonstrated:

- Students will be able to model and find perimeter.
- Students will be able to use a formula to find perimeter.
- Students will be able to differentiate shapes with same perimeter, different areas and ones with same area, different perimeters.
- Students will be able to find unknown measures.

PA Standards/Anchors:	Eligible Content:
M3.C.1 CC.2.4.3	CC.2.4.3.A.6 CC.2.4.3.A.5

Instructional Strategies:	Assessments:
• Co-teaching • Cooperative Groups • Technology – IXL • Group discussion • Hands-on activity • Graphic organizers – grid paper • Problem solving activities	• Test • Quiz • Teacher Observation

Grade Level: 3 **Course Title: Math** **Topic/Concept: Time Measurement & Intervals**

Time Allotment: 2 Weeks **Unit Sequence: 10**

Major Concepts to be learned:

- Telling Time
- Elapsed Time Problem-Solving

Expected Skills to be demonstrated:

- Students will be able to tell and write time to the minute..
- Students will be able to identify A.M. and P.M.
- Students will be able to measure time intervals.
- Students will be able to find start and end times.
- Students will be able to solve time interval problems.

PA Standards/Anchors:	Eligible Content:
CC2.4.3.A CC.2.4.3.A.1	CC.2.4.3.A.2 CC.2.4.3.A.4

Instructional Strategies:	Assessments:
• Co-teaching • Cooperative Groups • Technology – IXL • Geared manipulative clocks • Group discussion • Hands-on activity • Graphic organizers • Problem solving activities	• Test • Quiz • Teacher Observation

Grade Level: 3 **Course Title: Math** **Topic/Concept: Understand Fractions as Numbers**

Time Allotment: 2 Weeks **Unit Sequence: 11**

Major Concepts to be learned:

- Fractions

Expected Skills to be demonstrated:

- Students will be able to describe equal parts of a whole.
- Students will be able to represent and name unit fractions, fractions of a whole, and fractions on a number line.
- Students will be able to write fractions as sums of unit fractions.
- Students will be able to represent numbers greater than 1 as fractions and fractions of a set.

PA Standards/Anchors:	Eligible Content:
M3.C.2 **CC.2.1.3.C.1**	**CC.2.1.3.C.1**

Instructional Strategies:	Assessments:
• Co-teaching • Cooperative Groups • Technology – IXL • Fraction Strips, circles, and towers • Group discussion • Hands-on activity • Graphic organizers • Problem solving activities	• Test • Quiz • Teacher Observation

Grade Level: 3

Course Title: Math

Topic/Concept: Compare Fractions & Identify Equivalent Fractions

Time Allotment: 2 Weeks

Unit Sequence: 12

Major Concepts to be learned:

- Comparing Fractions
- Equivalent Fractions

Expected Skills to be demonstrated:

- Students will be able to compare fractions using visual models, with same denominator, and with same numerator.
- Students will be able to use reasoning to compare fractions.
- Students will be able to model equivalent fractions.
- Students will be able to compare and order fractions.

PA Standards/Anchors:	Eligible Content:
CC.2.1.3	M3.A.2.1.3 CC.2.1.3.C.1

Instructional Strategies:	Assessments:
• Co-teaching • Cooperative Groups • Technology – IXL • Fraction Strips, circles, and towers • Group discussion • Hands-on activity • Graphic organizers • Problem solving activities	• Test • Quiz • Teacher Observation

Grade Level: 3 **Course Title: Math** **Topic/Concept: Measurement**

Time Allotment: 2 Weeks **Unit Sequence: 13**

Major Concepts to be learned:

- Customary Units for Length, Capacity, and Weight
- Metric Units for Volume and Mass

Expected Skills to be demonstrated:

- Students will be able to use fractions to measure length
- Students will be able to estimate and measure customary units for capacity and weight.
- Students will be able to estimate and measure metric units for volume and mass.
- Students will be able to estimate and measure temperature and solve measurement problems.

PA Standards/Anchors:	Eligible Content:
CC2.4.3.A CC.2.4.3.A.1	CC.2.4.3.A.2 CC.2.4.3.A.4

Instructional Strategies:	Assessments:
• Co-teaching • Cooperative Groups • Technology – IXL • Measurement tools (ruler, scale, thermometer, containers) • Group discussion • Hands-on activity • Graphic organizers • Problem solving activities	• Test • Quiz • Teacher Observation • Measurement Project

Grade Level: 3 **Course Title: Math** **Topic/Concept: Define Two-Dimensional Shapes**

Time Allotment: 2 Weeks **Unit Sequence: 14**

Major Concepts to be learned:

- Geometry Concepts

Expected Skills to be demonstrated:

- Students will be able to explore lines, rays, and angles.
- Students will be able to describe angles in shapes.
- Students will be able to describe sides of shapes.
- Students will be able to define and draw quadrilaterals.

PA Standards/Anchors:	Eligible Content:
CC.2.3.3	CC.2.3.3.A.1 CC.2.3.3.A.2

Instructional Strategies:	Assessments:
• Co-teaching • Cooperative Groups • Technology – IXL • Geoboards, Geometric shapes • Group discussion • Hands-on activity • Graphic organizers • Problem solving activities	• Test • Quiz • Teacher Observation

Grade Level: 3 **Course Title: Math** **Topic/Concept: Represent & Interpret Data**

Time Allotment: 2 Weeks **Unit Sequence: 15**

Major Concepts to be learned:

- Graphs and Data

Expected Skills to be demonstrated:

- Student will be able to organize data.
- Students will be able to use and make picture graphs.
- Students will be able to use and make bar graphs.
- Students will be able to use and make line plots and circle graphs.

PA Standards/Anchors:	Eligible Content:
CC.2.4.3.A.1	CC.2.4.3.A.4

Instructional Strategies:	Assessments:
• Co-teaching • Cooperative Groups • Technology – IXL • Various graph samples • Group discussion • Hands-on activity • Graphic organizers • Problem solving activities	• Test • Quiz • Teacher Observation