Grade Level: 4 | **Course Title: Math** | **Topic/Concept: Place Value & Number Sense**

Time Allotment: 1 Week | **Unit Sequence: 1**

Major Concepts to be learned:

- Understanding the value of digits in multi-digit whole numbers
- Place value relationships and number magnitude
- Rounding and estimating whole numbers

Expected Skills to be demonstrated:

- Read, write, and represent whole numbers through one million
- Compare and order multi-digit number
- Round whole numbers to a specified place
- Explain place-value relationships using mathematical language

PA Standards/Anchors:	Eligible Content:
CC.2.1.4.B.1 CC.2.1.4.B.2	M04.A-T.1.1 M04.A-T.1.2 M04.A-T.1.3

Instructional Strategies:	Assessments:
• Direct instruction • Group discussion • Modeling/Demonstrating • Hands on manipulatives • Guided practice • Individual/group practice • Cooperative learning • Peer tutoring • Computer individual review	• Teacher observation • Authentic tasks • Adaptive assessments • Practice/skill pages • Practice/skill quiz • Student self-assessment • Homework check • Conferencing

Grade Level: 4 | **Course Title: Math** | **Topic/Concept: Addition and Subtraction**

Time Allotment: 1 Week | **Unit Sequence: 2**

Major Concepts to be learned:

- Addition and subtraction as inverse operations
- Strategies for multi-digit computation
- Estimation to check reasonableness
- Problem solving using addition and subtraction

Expected Skills to be demonstrated:

- Accurately add and subtract multi-digit whole numbers
- Solve real-world problems involving addition and subtraction
- Use estimation to assess solution reasonableness
- Communicate problem-solving strategies clearly

PA Standards/Anchors:	Eligible Content:
CC.2.1.4.B.2 CC.2.2.4.A.1	M04.A-T.1.3 M04.A-T.1.4

Instructional Strategies:	Assessments:
• Direct instruction • Group discussion • Modeling/Demonstrating • Hands on manipulatives • Guided practice • Individual/group practice • Cooperative learning • Peer tutoring • Computer individual review	• Teacher observation • Authentic tasks • Adaptive assessments • Practice/skill pages • Practice/skill quiz • Student self-assessment • Homework check • Conferencing

Grade Level: 4 | **Course Title: Math** | **Topic/Concept: Multiplication Concepts**

Time Allotment: 4 weeks | **Unit Sequence: 3**

Major Concepts to be learned:

- Multiplication as repeated addition and equal groups
- Factors, multiples, and number relationships
- Prime and composite numbers
- Patterns and rules in numerical sequences
- Multi digit multiplication

Expected Skills to be demonstrated:

- Solve multiplication problems using strategies and equations
- Identify factor pairs and multiples
- Classify numbers as prime or composite
- Analyze and generate number patterns
- Multiply Multi-digit numbers

PA Standards/Anchors:	Eligible Content:
CC.2.2.4.A.1 CC.2.2.4.A.2 CC.2.2.4.A.4	M04.A-O.1.1 M04.A-O.1.2 M04.A-O.1.3

Instructional Strategies:	Assessments:
• Direct instruction • Group discussion • Modeling/Demonstrating • Hands on manipulatives • Guided practice • Individual/group practice • Cooperative learning • Peer tutoring • Computer individual review	• Teacher observation • Authentic tasks • Adaptive assessments • Practice/skill pages • Practice/skill quiz • Student self-assessment • Homework check • Conferencing

Grade Level: 4 | **Course Title: Math** | **Topic/Concept: Division Concepts**

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

Major Concepts to be learned:

- Division as equal sharing and grouping
- Relationship between multiplication and division
- Meaning and interpretation of remainders
- Problem solving involving division situations

Expected Skills to be demonstrated:

- Solve division problems using multiple strategies
- Interpret remainders based on context
- Represent division situations with models and equations
- Explain division reasoning verbally and in writing

PA Standards/Anchors:	Eligible Content:
CC.2.2.4.A.1	M04.A-O.1.1 M04.A-O.1.4

Instructional Strategies:	Assessments:
• Direct instruction • Group discussion • Modeling/Demonstrating • Hands on manipulatives • Guided practice • Individual/group practice • Cooperative learning • Peer tutoring • Computer individual review	• Teacher observation • Authentic tasks • Adaptive assessments • Practice/skill pages • Practice/skill quiz • Student self-assessment • Homework check • Conferencing

Grade Level: 4 **Course Title: Math** **Topic/Concept: Fractions – Concepts & Equivalence**

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

Major Concepts to be learned:

- Fractions as parts of a whole and on a number line
- Equivalent fractions
- Comparing and ordering fractions
- Fraction reasoning using visual models

Expected Skills to be demonstrated:

- Represent fractions using visual and number-line models
- Generate and identify equivalent fractions
- Compare fractions using common denominators or benchmarks
- Justify fraction comparisons using reasoning

PA Standards/Anchors:

CC.2.1.4.C.1
CC.2.1.4.C.2

Eligible Content:

M04.A-F.1.1
M04.A-F.1.2
M04.A-F.1.3

Instructional Strategies:

- Direct instruction
- Group discussion
- Modeling/Demonstrating
- Hands on manipulatives
- Guided practice
- Individual/group practice
- Cooperative learning
- Peer tutoring
- Computer individual review

Assessments:

- Teacher observation
- Authentic tasks
- Adaptive assessments
- Practice/skill pages
- Practice/skill quiz
- Student self-assessment
- Homework check
- Conferencing

Grade Level: 4 **Course Title: Math** **Topic/Concept: Fraction Operations & Decimals**

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

Major Concepts to be learned:

- Fraction addition and subtraction with like denominators
- Connections between fractions and decimals
- Decimal notation and place value
- Comparing decimal values

Expected Skills to be demonstrated:

- Add and subtract fractions with like denominators
- Convert fractions to decimals
- Compare decimal numbers to the hundredths place
- Use models to explain fraction and decimal relationships

PA Standards/Anchors:	Eligible Content:
CC.2.1.4.C.2 CC.2.1.4.C.3	M04.A-F.1.4 M04.A-F.1.5

Instructional Strategies:	Assessments:
• Direct instruction • Group discussion • Modeling/Demonstrating • Hands on manipulatives • Guided practice • Individual/group practice • Cooperative learning • Peer tutoring • Computer individual review	• Teacher observation • Authentic tasks • Adaptive assessments • Practice/skill pages • Practice/skill quiz • Student self-assessment • Homework check • Conferencing

Grade Level: 4 | **Course Title: Math** | **Topic/Concept: Measurement**

Time Allotment: 3 Weeks | **Unit Sequence:7**

Major Concepts to be learned:

- Measurement within a given system
- Unit conversions
- Real-world measurement problem solving
- Precision and accuracy in measurement

Expected Skills to be demonstrated:

- Convert measurements within the same system
- Solve real-world measurement problems
- Apply appropriate measurement tools and strategies
- Explain reasoning using units and labels

PA Standards/Anchors:

CC.2.4.4.A.1
CC.2.4.4.A.2

Eligible Content:

M04.D-M.1.1
M04.D-M.1.2
M04.D-M.1.1.1
M04.D-M.1.1.2
M04.D-M.1.1.3
M04.D-M.1.1.4

Instructional Strategies:

- Direct instruction
- Group discussion
- Modeling/Demonstrating
- Hands on manipulatives
- Guided practice
- Individual/group practice
- Cooperative learning
- Peer tutoring
- Computer individual review

Assessments:

- Teacher observation
- Authentic tasks
- Adaptive assessments
- Practice/skill pages
- Practice/skill quiz
- Student self-assessment
- Homework check
- Conferencing

Grade Level: 4 | **Course Title: Math** | **Topic/Concept: Data & Line Plots**

Time Allotment: 3 Weeks | **Unit Sequence: 8**

Major Concepts to be learned:

- Collecting and organizing data
- Interpreting data displays
- Line plots involving fractional units
- Drawing conclusions from data

Expected Skills to be demonstrated:

- Create and interpret charts, graphs, and line plots
- Analyze data involving fractions
- Solve problems using data representations
- Communicate conclusions clearly

PA Standards/Anchors:	Eligible Content:
CC.2.4.4.A.2 CC.2.4.4.A.4	M04.D-M.2.1.1 M04.D-M.2.1.2

Instructional Strategies:	Assessments:
• Direct instruction • Group discussion • Modeling/Demonstrating • Hands on manipulatives • Guided practice • Individual/group practice • Cooperative learning • Peer tutoring • Computer individual review	• Teacher observation • Authentic tasks • Adaptive assessments • Practice/skill pages • Practice/skill quiz • Student self-assessment • Homework check • Conferencing

Grade Level: 4 **Course Title: Math** **Topic/Concept: Geometry**

Time Allotment: 4 Weeks **Unit Sequence: 9**

Major Concepts to be learned:

- Properties of lines and angles
- Classification of two-dimensional shapes
- Measurement of angles
- Symmetry in geometric figures

Expected Skills to be demonstrated:

- Measure and draw angles using a protractor
- Classify shapes based on attributes
- Identify and draw lines of symmetry
- Use precise mathematical vocabulary to explain reasoning

PA Standards/Anchors:

CC.2.3.4.A.1
CC.2.3.4.A.2
CC.2.3.4.A.3
CC.2.4.4.A.6

Eligible Content:

M04.D-M.3.1.1
M04.D-M.3.1.2

Instructional Strategies:

- Direct instruction
- Group discussion
- Modeling/Demonstrating
- Hands on manipulatives
- Guided practice
- Individual/group practice
- Cooperative learning
- Peer tutoring
- Computer individual review

Assessments:

- Teacher observation
- Authentic tasks
- Adaptive assessments
- Practice/skill pages
- Practice/skill quiz
- Student self-assessment
- Homework check
- Conferencing