Wilson Area School District
Planned Course Guide

Title of planned course: Kindergarten Mathematics

Subject Area: Math

Grade Level: Kindergarten

Course Description: Students will be able to:

- Identify, count, & write numbers 0-20
- Apply 1:1 correspondence to count the number of objects in a set
- Compare numbers and quantities
- Use place value to compose and decompose numbers within 19
- Perform simple addition and subtraction within 10
- Recognize and extend patterns
- Identify, describe, and create 2 and 3 dimensional shapes
- Describe and compare attributes of length, area, weight, and capacity of objects
- Organize and display data using graphs
- Identify penny, nickel, and dime
- Tell time to the hour

Textbook: *Envision Mathematics, Common Core*, Student Edition

Teacher Resources:

- Teacher Manuals
- Student Edition
- Practice Workbook
- Daily Review
- Reteaching
- Mathematical Literacy
- enVision STEM Activity
- Problem Solving Leveled Reading Mat
- Problem Solving Reading Activity
- Digital Math Tools
- ESL Support Handbook
- Math Manipulatives
- Digital Lesson Courseware
- Lesson Support for teachers
- SavvasRealize.com

Time/Credit for this Course: One Full Academic Year

Curriculum Writing Committee: Lynette Wakefield and Robin Stem

Curriculum Map

August: Introduction to School Routines

September:
- Topic 1- Numbers 0-5 (13-15 days)
- Topic 2- Compare Numbers 0-5 (7-9 days)

October:
- Topic 2- (continued)
- Topic 3- Numbers 6-10 (11-13 days)
- Topic 4- Compare Numbers 0-10 (8-10 days)

November:
- Topic 4- (continued)
- Topic 5- Classify and Count Data (7-9 days)

December:
- Topic 6 - Understand Addition (11-13 days)
- Time to the Hour (5-7 days) *Use supplemental materials* Added into curriculum by grade level teachers to provide foundational skills for first grade. NO STATE STANDARD

January:
- Topic 7- Understand Subtraction (10-12 days)
- Topic 8- More Addition and Subtraction (13-15 days)

February:
- Topic 8 (continued) - More Addition and Subtraction
- Topic 9 -Count Numbers to 20 (10-12 days)
- Identify pennies, nickels and dimes (4-6 days) *Use supplemental materials* Added into curriculum by grade level teachers to provide foundational skills for first grade. NO STATE STANDARD

March:
- Topic 10- Compose and Decompose Numbers 11-19 (10-12 days)
- Topic 11- Count Numbers to 100 (8-10 days)

April:
- Topic 12- Identify and Describe Shapes (10-12 days)
- Topic 13- Analyze, Compare, and Create Shapes (10-12 days)

May:
- Topic 13 (continued) - Analyze, Compare, and Create Shapes
- Topic 14- Describe and Compare Measurable Attributes (9-11days)

June: Review Mathematical Concepts taught in Kindergarten

Curriculum Scope & Sequence

Planned course: Kindergarten Mathematics

Topic 1: Numbers Zero to Five

Time frame: 13-15 Days

PA Core Standards:
- CC.2.1.K.A.1 Know number names and write and recite the count sequence
- CC.2.1.K.A.2 Apply one-to-one correspondence to count the number of objects

Essential content/objectives: At end of the unit, students will be able to:
- Count 1,2,3,4 and 5 objects
- Count groups of 1,2,3,4 and 5 objects shown in different ways
- Read and write the numbers 1,2,3,4 and 5
- Use zero to tell when there are no objects
- Read and write the number 0
- Count up to the number 5
- Understand that the last number said aloud when counting represents the number of objects
- Use math to explain what they know about counting

Core Activities: Students will complete/participate in the following:
- Daily Core Review
- Listen and Look for Lesson Video
- Interactive Math Story
- Solve and Share Activity
- Visual Learning Bridge
- Vocabulary instruction
- Workbook pages for independent practice
- Count and color, count and circle objects
- Write numbers in sand, on whiteboard, or in shaving cream
- Roll dice, count and write
- Match number to amount
- Use counters to represent groups of objects
- Number memory match, puzzles, number tracers
- Number writing poems

Extensions:
- Calendar Math
- Math Anytime daily review
- enVision STEM Project
- Pick a Project
- Topic Centers
- 3-Act Math
- Technology Center

Remediation:

- Re-teaching lesson at end of chapter
- Digital Math Tools Activities
- Math tubs/stations
- Technology Center
- Small group work

Instructional Methods:

- Whole group explicit instruction
- Small group explicit instruction
- Partner work

Materials & Resources:

- Teacher Manuals
- Student Edition
- Practice Workbook
- Daily Review
- Reteaching
- Mathematical Literacy
- enVision STEM Activity
- Problem Solving Leveled Reading Mat
- Problem Solving Reading Activity
- Digital Math Tools
- ESL Support Handbook
- Math Manipulatives- connecting cubes and counters
- Digital Lesson Courseware
- Lesson Support for teachers
- SavvasRealize.com
- Number Cards
- Crayons
- Tape
- Technology- Boom Cards, Google slides, math games
- Jack Hartman Songs

Assessments:

- Topic test & alternate test master
- Teacher observation
- Independent practice
- Quick Check Master
- Fluency games- online
- Google Slides

Curriculum Scope & Sequence

Planned course: Kindergarten Mathematics

Topic 2: Compare Numbers 0-5

Time Frame: 7-9 days

PA Core Standards:
- CC.2.1.K.A.1 Know number names and write and recite the count sequence
- CC.2.1.K.A.2 Apply one-to-one correspondence to count the number of objects
- CC.2.1.K.A.3 Apply the concept of magnitude to compare numbers and quantities

Essential content/objectives: At end of the unit, students will be able to:
- Compare groups to see whether they are equal by matching
- Tell whether one group is greater in number than another group
- Tell whether one group is less in number than another group
- Compare numbers
- Use objects, drawings, and numbers to compare numbers

Core Activities: Students will complete/participate in the following:
- Daily Core Review
- Listen and Look for Lesson Video
- Interactive Math Story
- Solve and Share Activity
- Visual Learning Bridge
- Vocabulary instruction
- Workbook pages for independent practice
- Use cubes/drawings to show numbers/ compare sets
- Use teaching tools or flashcards to order numbers 0-5
- Teacher-made games
- Step on # line to show one more or two more
- Use manipulatives to show 1:1
- Roll dice and play one more or two more (or less)
- Use students to show ordinal numbers and to put in correct order
- Use manipulatives to practice ordinal numbers

Extensions:
- Calendar Math
- enVision STEM Project
- Pick a Project
- Topic Centers
- 3-Act Math

Remediation:
- Re-teaching lesson at end of chapter
- Math tubs/stations
- Small group work

Instructional Methods:

- Whole group instruction
- Small group instruction
- Partner work

Materials & Resources:

- Teacher Manuals
- Student Edition
- Practice Workbook
- Daily Review
- Reteaching
- Mathematical Literacy
- enVision STEM Activity
- Problem Solving Leveled Reading Mat
- Number cards
- Problem Solving Reading Activity
- Digital Math Tools
- ESL Support Handbook
- Math Manipulatives- counters, cubes
- Digital Lesson Courseware
- Lesson Support for teachers
- SavvasRealize.com
- Technology- Boom Cards, Google slides, math games
- Jack Hartman Songs

Assessments:

- Topic test & alternate test master
- Teacher observation
- Independent practice
- Quick Check Master
- Fluency games- online
- Google Slides

Curriculum Scope & Sequence

Planned course: Kindergarten Mathematics

Topic 3: Numbers 6-10

Time Frame: 11-13 days

PA Core Standards:
- CC.2.1.K.A.1 Know number names and write and recite the count sequence
- CC.2.1.K.A.2 Apply one-to-one correspondence to count the number of objects
- CC.2.1.K.A.3 Apply the concept of magnitude to compare numbers and quantities

Essential content/objectives: At end of the unit, students will be able to:
- Count, read and write the numbers 6-10
- Count groups of numbers to 10.
- Use counting patterns to solve a problem

Core Activities: Students will complete/participate in the following:
- Daily Core Review
- Listen and Look for Lesson Video
- Interactive Math Story
- Solve and Share Activity
- Visual Learning Bridge
- Vocabulary instruction
- Workbook pages for independent practice
- Use ten frames to show numbers
- Count and color or count and circle objects
- Write numbers in sand, on whiteboard, or in shaving cream
- Roll dice, count and write
- Use counters to represent groups of objects
- Memory, puzzles, number tracers
- Create dot cards to represent number

Extensions:
- Calendar Math
- enVision STEM Project
- Pick a Project
- Topic Centers
- 3-Act Math

Remediation:
- e game
- Matching games
- Number tracing
- Manipulatives – pattern blocks, attribute blocks, 3-D shapes, crayons, pencils, classroom objects, counting boards, counting tools (bears, vehicles, fruit, bugs, cubes, erasers, markers, stuffed animals, students)

Materials and Resources:

- Teacher Manuals
- Student Edition
- Practice Workbook
- Daily Review
- Reteaching
- Mathematical Literacy
- enVision STEM Activity
- Problem Solving Leveled Reading Mat
- Problem Solving Reading Activity
- Digital Math Tools
- ESL Support Handbook
- Math Manipulatives
- Digital Lesson Courseware
- Lesson Support for teachers
- SavvasRealize.com
- Technology- Boom Cards, Google slides, math games
- Jack Hartman Songs

Assessments:

- Topic test & alternate test master
- Teacher observation
- Independent practice
- Quick Check Master
- Fluency games- online
- Google Slides

Curriculum Scope & Sequence

Planned course: Kindergarten Mathematics

Topic 4: Compare Numbers 0-10

Time Frame: 8-10 days

PA Core Standards:
- CC.2.1.K.A.1 Know number names and write and recite the count sequence
- CC.2.1.K.A.2 Apply one-to-one correspondence to count the number of objects
- CC.2.1.K.A.3 Apply the concept of magnitude to compare numbers and quantities

Essential content/objectives: At end of the unit, students will be able to:
- Compare groups of up to 10 objects
- Compare groups of numbers using numerals to 10
- Compare groups of numbers by counting
- Compare two numbers
- Repeat something from one problem to help solve another problem

Core Activities: Students will complete/participate in the following:
- Daily Core Review
- Listen and Look for Lesson Video
- Interactive Math Story
- Solve and Share Activity
- Visual Learning Bridge
- Vocabulary instruction
- Workbook pages for independent practice
- Use cubes/drawings to show numbers/ compare sets
- Use teaching tools or flashcards to order numbers 0-10
- Use graphing to line up objects/students and show which is greater, has fewer, or the same amount
- Step on # line to show one more or two more
- Use manipulatives to show 1:1
- Roll dice and play one more or two more (or less)
- Whiteboard writing
- Use students to show ordinal numbers and to put in correct order
- Use manipulatives to practice ordinal numbers

Extensions:
- Calendar Math
- enVision STEM Project
- Pick a Project
- Topic Centers
- 3-Act Math

Remediation:
- Re-teaching lesson at end of chapter
- Math tubs/stations
- Small group work

Instructional Methods:

- Whole group instruction
- Small group instruction
- Partner work

Materials & Resources:

- Teacher Manuals
- Student Edition
- Practice Workbook
- Daily Review
- Reteaching
- Mathematical Literacy
- enVision STEM Activity
- Problem Solving Leveled Reading Mat
- Problem Solving Reading Activity
- Digital Math Tools
- ESL Support Handbook
- Math Manipulatives
- Digital Lesson Courseware
- Lesson Support for teachers
- SavvasRealize.com
- Technology- Boom Cards, Google slides, math games
- Jack Hartman Songs

Assessments:

- Topic test & alternate test master
- Teacher observation
- Independent practice
- Quick Check Master
- Fluency games- online
- Google Slides

Curriculum Scope & Sequence

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Topic 5: Classify and Count Data

Time Frame: 7-9 days

PA Core Standards:
- CC.2.1.K.A.1 Know number names and write and recite the count sequence
- CC.2.1.K.A.3 Apply the concept of magnitude to compare numbers and quantities
- CC.2.4.K.A.4 Classify objects and count the number of objects in each category

Essential content/objectives: At end of the unit, students will be able to:
- Classify objects into categories and tell why they are in each category
- Count how many objects are in different categories
- Use counting to compare how many objects are in categories
- Tell whether the way objects have been sorted, counted and compared makes sense

Core Activities: Students will complete/participate in the following:
- Daily Core Review
- Listen and Look for Lesson Video
- Interactive Math Story
- Solve and Share Activity
- Visual Learning Bridge
- Vocabulary instruction
- Workbook pages for independent practice
- Sort manipulatives and graph data
- Create classroom graphs to record students interests and opinions

Extensions:
- Calendar Math-Introduce patterns during morning meeting
- enVision STEM Project
- Pick a Project
- Topic Centers
- 3-Act Math

Remediation:
- Re-teaching lesson at end of chapter
- Math tubs/stations
- Small group work

Instructional Methods:
- Whole group instruction
- Small group instruction
- Partner work

Materials & Resources:

- Teacher Manuals
- Student Edition
- Practice Workbook
- Daily Review
- Reteaching
- Mathematical Literacy
- enVision STEM Activity
- Problem Solving Leveled Reading Mat
- Problem Solving Reading Activity
- Digital Math Tools
- ESL Support Handbook
- Math Manipulatives
- Digital Lesson Courseware
- Lesson Support for teachers
- SavvasRealize.com
- Technology- Boom Cards, Google slides, math games
- Jack Hartman Songs

Assessments:

- Topic test & alternate test master
- Teacher observation
- Independent practice
- Quick Check Master
- Fluency games- online
- Google Slides

Curriculum Scope & Sequence

Planned course: Kindergarten Mathematics

Topic 6: Understand Addition

Time Frame: 11-13 days

PA Core Standards

- CC.2.1.K.A.1 Know number names and write and recite the count sequence
- CC.2.1.K.A.2 Apply one-to-one correspondence to count the number of objects
- CC.2.2.K.A.1 Extend the concepts of putting together and taking apart to add and subtract within 10

Essential content/objectives: At end of the unit, students will be able to:

- Show numbers in many ways
- Represent addition as adding to a number
- Represent addition as putting two or more parts together
- Write an equation to show addition
- Solve addition problems
- Use equations to represent and explain addition

Core Activities: Students will complete/participate in the following:

- Daily Core Review
- Solve and Share Activity
- Visual Learning Bridge
- Vocabulary instruction
- Workbook pages for independent practice
- Use manipulatives to solve equations
- Addition work mats
- Addition board games
- Roll dice and add numbers together
- Use whiteboards to write the equation
- Addition journals
- Act out stories with manipulatives
- Use walk on number line for students to add
- Use fingers to count up
- Teacher made games

Extensions:

- Calendar Math
- enVision STEM Project
- Pick a Project
- Topic Centers
- 3-Act Math

Remediation:

- Re-teaching lesson at end of chapter
- Math tubs/stations
- Small group work

Instructional Methods:

- Whole group instruction
- Small group instruction
- Partner work

Materials & Resources:

- Teacher Manuals
- Student Edition
- Practice Workbook
- Daily Review
- Reteaching
- Mathematical Literacy
- enVision STEM Activity
- Problem Solving Leveled Reading Mat
- Problem Solving Reading Activity
- Digital Math Tools
- ESL Support Handbook
- Math Manipulatives
- Digital Lesson Courseware
- Lesson Support for teachers
- SavvasRealize.com
- Technology- Boom Cards, Google slides, math games
- Jack Hartman Songs

Assessments:

- Topic test & alternate test master
- Teacher observation
- Independent practice
- Quick Check Master
- Fluency games- online
- Google Slides

Curriculum Scope & Sequence

Planned course: Kindergarten Mathematics

Topic 7: Understand Subtraction

Time Frame: 10-12 days

PA Core Standards

- CC.2.1.K.A.1 Know number names and write and recite the count sequence
- CC.2.1.K.A.2 Apply one-to-one correspondence to count the number of objects
- CC.2.2.K.A.1 Extend the concepts of putting together and taking apart to add and subtract within 10

Essential content/objectives: At end of the unit, students will be able to:

- Show numbers in many ways
- Take apart a number and tell the parts
- Represent subtraction as taking away from a whole
- Write an equation to show subtraction
- Find the difference of two numbers
- Find patterns in subtraction equations

Core Activities: Students will complete/participate in the following:

- Daily Core Review
- Solve and Share Activity
- Visual Learning Bridge
- Vocabulary instruction
- Workbook pages for independent practice
- Subtraction work mats
- Subtraction board games
- Roll dice and subtract from greater number
- Use whiteboards to write the equation
- Subtraction journals
- Act out stories with manipulatives
- Use walk on number line for students to subtract
- Use fingers to take away
- Teacher made games

Extensions:

- Calendar Math
- enVision STEM Project
- Pick a Project
- Topic Centers
- 3-Act Math

Remediation:

- Re-teaching lesson at end of chapter
- Math tubs/stations
- Small group work

Instructional Methods:

- Whole group instruction
- Small group instruction

Materials & Resources:

- Teacher Manuals
- Student Edition
- Practice Workbook
- Daily Review
- Reteaching
- Mathematical Literacy
- enVision STEM Activity
- Problem Solving Leveled Reading Mat
- Problem Solving Reading Activity
- Digital Math Tools
- ESL Support Handbook
- Math Manipulatives
- Digital Lesson Courseware
- Lesson Support for teachers
- SavvasRealize.com
- Technology- Boom Cards, Google slides, math games
- Jack Hartman Songs

Assessments:

- Topic test & alternate test master
- Teacher observation
- Independent practice
- Quick Check Master
- Fluency games- online
- Google Slides

Curriculum Scope & Sequence

Planned course: Kindergarten Mathematics

Topic 8: More Addition and Subtraction

Time frame: 13-15 Days

PA Core Standards

- CC.2.1.K.A.1 Know number names and write and recite the count sequence
- CC.2.2.K.A.1 Extend the concepts of putting together and taking apart to add and subtract within 10

Essential content/objectives: At end of the unit, students will be able to:

- Write an addition equation to solve a word problem
- Solve related addition and subtraction equations
- Reason about numbers and operations
- Write addition and subtraction equations within 5 and remember them
- Write an addition equation to solve word problems
- Show how to make a group of 10
- Find number patterns to 10
- Find a missing part to make 10

Core Activities: Students will complete/participate in the following:

- Daily Core Review
- Listen and Look for Lesson Video
- Interactive Math Story
- Solve and Share Activity
- Visual Learning Bridge
- Vocabulary instruction
- Workbook pages- Student Edition
- Use manipulatives to solve equations
- Draw pictures to add/subtract
- Addition/Subtraction work mats
- Addition/Subtraction board games
- Roll dice and add numbers together
- Roll dice and take away from greater number
- Use whiteboards to write the equation
- Act out stories with manipulatives
- Use walk on number line for students to add
- Use walk on number line for students to subtract
- Use fingers to count up and back
- Teacher made games

Extensions:

- Pick a Topic Project
- Enrichment practice pages/ Center Activities
- Daily Challenge Problems
- Color to show different ways to add
- Partners give each other equations to solve
- Add three numbers
- Use counters to show different designs to make 10
- 3-Act Math
- Calendar Math

Remediation:

- Re-teaching lesson at end of chapter
- Reteaching practice pages
- Provided intervention activities in teacher manuals
- Math tubs/stations
- Small group work

Instructional Methods:

- Whole group instruction
- Small group instruction
- Hands-on manipulatives
- Partner work

Materials & Resources:

- Mathematical Literacy
- enVision STEM Activity
- Problem Solving Leveled Reading Mat
- Problem Solving Reading ActivitySavvasRealize.com
- Student Editions
- Teacher's manuals
- Practice Worksheets
- Teaching tools from computer
- Doc Camera
- White boards and markers
- Puzzles
- Ten frames
- Roll and add games
- Counters, erasers, cubes
- Dominoes
- Pencils, crayons
- Dice
- Jack Hartman Songs
- Technology- Boom Cards, Google slides, math games

Assessments:

- Topic test & alternate test master
- Teacher observation
- Independent practice
- Quick Check Master
- Fluency games- online
- Google Slide

Curriculum Scope & Sequence

Planned course: Kindergarten Mathematics

Topic 9: Count Numbers to 20

Time frame: 10-12 Days

PA Core Standards
- CC.2.1.K.A.1 Know number names and write and recite the count sequence
- CC.2.1.K.A.2 Apply one-to-one correspondence to count the number of objects

Essential content/objectives: At end of the unit, students will be able to:
- Count and write the numbers 11-20
- Count forward from any number to a number within 20
- Count to find how many are in a group
- Use reasoning to count and write numbers to the number 20

Core Activities: Students will complete/participate in the following:
- Daily Core Review
- Listen and Look for Lesson Video
- Interactive Math Story
- Solve and Share Activity
- Visual Learning Bridge
- Vocabulary instruction
- Workbook pages- Student Edition
- Count manipulatives and write how many
- Use ten frames and counters to build numbers
- Color boxes to show how many
- Draw to show how many
- Use a 10 cube train to count
- Puzzles
- Matching
- Putting number flashcards in order
- Teacher-made count and color games
- Write the room

Extensions:
- Pick a Topic Project
- Enrichment practice pages/ Center Activities
- Daily Challenge Problems
- Students can bring in objects from home to match a number within 20
- Arrange number cards in order
- 3-Act Math
- Calendar Math

Remediation:

- Re-teaching lesson at end of chapter
- Reteaching practice pages
- Provided intervention activities in teacher manuals
- Math tubs/stations
- Small group work

Instructional Methods:

- Whole group instruction
- Small group instruction
- Hands-on manipulatives
- Partner work

Materials & Resources:

- SavvasRealize.com
- Student Editions
- Teacher's manuals
- Practice Worksheets
- Teaching tools from computer
- Doc Camera
- White boards and markers
- Puzzles
- 1 more, 1 less roll and write game
- Matching games
- Number tracing
- Ten frame/counters
- Jack Hartman Songs
- crayons, pencils, classroom objects, counting tools (bears, vehicles, cubes, erasers
- Shaving cream
- Flashcards
- Memory games
- Around the world game
- Dice games – roll and count, roll and color
- Technology- Boom Cards, Google slides, math games
- Mathematical Literacy
- enVision STEM Activity
- Problem Solving Leveled Reading Mat
- Problem Solving Reading Activity

Assessments:

- Topic test & alternate test master
- Teacher observation
- Independent practice
- Fluency games- online
- Google Slides

Curriculum Scope & Sequence

Planned course: Kindergarten Mathematics

Topic 10: Compose and Decompose Numbers 11-19

Time frame: 10-12 Days

PA Core Standards

- CC.2.1.K.A.2 Apply one-to-one correspondence to count the number of objects
- CC.2.1.K.B.1 Use place value to compose and decompose numbers within 19

Essential content/objectives: At end of the unit, students will be able to:

- Use drawings and equations to make the numbers 11-19
- FInd parts of the numbers 11-19 when one part is 10
- Use patterns to make and find the numbers to 19

Core Activities: Students will complete/participate in the following:

- Daily Core Review
- Listen and Look for Lesson Video
- Interactive Math Story
- Solve and Share Activity
- Visual Learning Bridge
- Vocabulary instruction
- Workbook pages- Student Edition
- Use manipulatives to solve equations
- Use drawings to solve equations
- Work mats/ten frames/counters
- Board games
- Roll dice and add numbers together
- Use whiteboards to write the number
- Act out stories with manipulatives
- Use walk on number line for students to add
- Use fingers to count up
- Teacher made games

Extensions:

- Pick a Topic Project
- Enrichment practice pages/ Center Activities
- Daily Challenge Problems
- Collect objects from outside to make numbers
- Make drawings to show numbers
- 3-Act Math
- Calendar Math

Remediation:

- Re-teaching lesson at end of chapter
- Reteaching practice pages
- Provided intervention activities in teacher manuals
- Math tubs/stations
- Small group work

Instructional Methods:

- Whole group instruction
- Small group instruction
- Hands-on manipulatives
- Partner work

Materials & Resources:

- SavvasRealize.com
- Student Editions
- Teacher's manuals
- Practice Worksheets
- Teaching tools from computer
- Doc Camera
- White boards and markers
- Puzzles
- Tens, ones blocks
- Ten frames
- Roll and add games
- Counters
- Erasers
- Unifix cubes
- Pencils, crayons
- Flashcards
- Jack Hartman Songs
- Technology- Boom Cards, Google slides, math games
- Mathematical Literacy
- enVision STEM Activity
- Problem Solving Leveled Reading Mat
- Problem Solving Reading Activity

Assessments:

- Topic test & alternate test master
- Teacher observation
- Independent practice
- Fluency games- online
- Google Slides

Curriculum Scope & Sequence

Planned course: Kindergarten Mathematics

Topic 11: Count Numbers to 100

Time frame: 8-10 Days

PA Core Standards

- CC.2.1.K.A.1 Know number names and write and recite the count sequence

Essential content/objectives: At end of the unit, students will be able to:

- Use patterns to count to 30
- Use patterns to count to 50
- Skip count by 10to count to 100
- Count forward from any number to 100 by ones
- See patterns when counting

Core Activities: Students will complete/participate in the following:

- Daily Core Review
- Listen and Look for Lesson Video
- Interactive Math Story
- Solve and Share Activity
- Visual Learning Bridge
- Vocabulary instruction
- Workbook pages- Student Edition
- Count manipulatives and write how many
- Use the hundreds chart to show how to count by 2's, 5's, 10's
- Look for number patterns in the hundreds chart
- Fill in what comes next using the hundreds chart
- Color boxes to show how many
- Draw to show how many
- Use several 10 cube trains to count
- Puzzles
- Matching
- Putting number flashcards in order
- Teacher-made count and color games

Extensions:

- Draw groups of 10 to make 100
- Look for and extend patterns on 100s charts
- Cover and guess the number
- Pick a Topic Project
- Enrichment practice pages/ Center Activities
- Daily Challenge Problems
- 3-Act Math
- Calendar Math

Remediation:

- Re-teaching lesson at end of chapter
- Reteaching practice pages
- Provided intervention activities in teacher manuals
- Math tubs/stations
- Small group work

Instructional Methods:

- Whole group instruction
- Small group instruction
- Hands-on manipulatives
- Partner work

Materials & Resources:

- SavvasRealize.com
- Student Editions
- Teacher's manuals
- Practice Worksheets
- Teaching tools from computer
- Doc Camera
- White boards and markers
- Shaving cream
- Flashcards
- Ten frames
- Groups of 10 straws, 10 unifix cubes, etc.
- Memory games
- Around the world game
- Dice games – roll and count, roll and color
- Puzzles
- Hands
- Jack Hartman songs
- 1 more, 1 less roll and write game
- Matching games
- Hundreds chart
- Number tracing
- Crayons
- Pencils,
- Classroom objects
- Counting tools (bears, vehicles, cubes, erasers)
- Technology- Boom Cards, Google slides, math games
- Mathematical Literacy
- enVision STEM Activity
- Problem Solving Leveled Reading Mat
- Problem Solving Reading Activity

Assessments:

- Topic test & alternate test master
- Teacher observation
- Independent practice
- Fluency games- online
- Google Slides

Curriculum Scope & Sequence

Planned course: Kindergarten Mathematics

Topic 12: Identify and Describe Shapes

Time frame: 11-13 days

PA Core Standards:
- CC.2.3.K.A.1 Identify and describe two- and three dimensional shapes
- CC.2.3.K.A.2 Analyze, compare, create, and compose two- and three-dimensional shapes

Essential content/objectives: At end of the unit, students will be able to:
- Name shapes as flat or solid
- Identify and describe shapes (square, circle, triangle, rectangle, hexagon)
- Correctly name shapes regardless of orientation and size
- Identify solid figures (cylinder, cube, cone, sphere)
- Describe shapes in the environment
- Describe position of shapes in environment

Core Activities: Students will complete/participate in the following:
- Daily Core Review
- Listen and Look for Lesson Video
- Interactive Math Story
- Solve and Share Activity
- Visual Learning Bridge
- Vocabulary instruction
- Workbook pages- Student Edition
- Make shapes using playdough, pattern blocks, or drawings
- Make pictures with shapes
- Match shapes
- Id shapes in pictures and in classroom/environment
- Cut shapes out of magazines
- Trace 3D shapes to find the flat surface
- Sort shapes by type

Extensions:
- Teach/introduce other shapes including oval, diamond, trapezoid, rectangular prism, triangular prism
- Make a class mural of an outdoor scene- include learned shapes
- Pick a Topic Project
- Enrichment practice pages/ Center Activities
- Daily Challenge Problems
- 3-Act Math
- Calendar Math

Remediation:

- Re-teaching lesson at end of chapter
- Reteaching practice pages
- Provided intervention activities in teacher manuals
- Math tubs/stations
- Small group work

Instructional Methods:

- Whole group instruction
- Small group instruction
- Hands-on manipulatives
- Partner work

Materials & Resources:

- SavvasRealize.com
- Student Editions
- Teacher's manuals
- Practice Worksheets
- Doc Camera
- Jack Hartman Songs
- Teaching tools from computer
- Pattern blocks
- 3-D shapes
- Crayons, pencils, teaching tools
- Technology- Boom Cards, Google slides, math games
- Mathematical Literacy
- enVision STEM Activity
- Problem Solving Leveled Reading Mat
- Problem Solving Reading Activity

Assessments:

- Topic test & alternate test master
- Teacher observation
- Independent practice
- Fluency games- online
- Google Slides

Curriculum Scope & Sequence

Planned course: Kindergarten Mathematics

Topic 13: Analyze, Compare, and Create Shapes

Time frame: 10-12 Days

PA Core Standards:
- CC.2.1.K.A.2 Apply one-to-one correspondence to count the number of objects
- CC.2.1.K.A.3 Apply the concept of magnitude to compare numbers and quantities
- CC.2.2.K.A.1 Extend the concepts of putting together and taking apart to add and subtract within 10
- CC.2.3.K.A.1 Identify and describe two- and three dimensional shapes
- CC.2.3.K.A.2 Analyze, compare, create, and compose two- and three-dimensional shapes

Essential content/objectives: At end of the unit, students will be able to:
- Analyze and compare 2 and 3 dimensional shapes
- Make sense of problems about shapes
- Make 2D shapes using other 2D shapes
- Build 2D shapes that match given attributes
- Use materials to build 3D shapes

Core Activities: Students will complete/participate in the following:
- Daily Core Review
- Listen and Look for Lesson Video
- Interactive Math Story
- Solve and Share Activity
- Visual Learning Bridge
- Vocabulary instruction
- Workbook pages- Student Edition
- Use playdough to make shapes
- Make pictures or shapes with pattern blocks
- Make numbers or letters with pattern blocks
- Use 3D shapes to experiment and see which roll, slide, and/or stack
- Build with solid figures
- Sort/match shapes

Extensions:
- Introduce patterns
- Play a guessing game describing shapes in room
- Pick a Topic Project
- Enrichment practice pages/ Center Activities
- Daily Challenge Problems
- 3-Act Math
- Calendar Math

Remediation:

- Re-teaching lesson at end of chapter
- Reteaching practice pages
- Provided intervention activities in teacher manuals
- Math tubs/stations
- Small group work

Instructional Methods:

- Whole group instruction
- Small group instruction
- Hands-on manipulatives
- Partner work

Materials & Resources:

- SavvasRealize.com
- Student Editions
- Teacher's manuals
- Practice Worksheets
- Doc Camera
- Teaching tools from computer
- Pattern blocks, 3-D shapes, crayons, pencils, teaching tools
- Technology- Boom Cards, Google slides, math games
- Jack Hartman Songs
- Mathematical Literacy
- enVision STEM Activity
- Problem Solving Leveled Reading Mat
- Problem Solving Reading Activity

Assessments:

- Topic test & alternate test master
- Teacher observation
- Independent practice
- Fluency games- online
- Google Slides

Curriculum Scope & Sequence

Planned course: Kindergarten Mathematics

Topic 14: Describe and Compare Measurable Attributes

Time frame: 9-11 Days

PA Core Standards

- CC.2.4.K.A.1 Describe and compare attributes of length, area, weight, and capacity of everyday objects

Essential content/objectives: At end of the unit, students will be able to:

- Describe and compare objects by length, height, capacity, & weight
- Use measurable attributes to describe objects
- Use small objects to measure length
- Use precision to solve math problems about objects with measurable attributes

Core Activities: Students will complete/participate in the following:

- Daily Core Review
- Listen and Look for Lesson Video
- Interactive Math Story
- Solve and Share Activity
- Visual Learning Bridge
- Vocabulary instruction
- Workbook pages- Student Editions
- Measure items around the room with various measuring tools (yarn, cubes, etc.)
- Measuring booklet
- Find items that measure a specific length/ height
- Compare length/height/weight of items
- Put items in order: shortest to tallest, longest to shortest, heaviest to lightest
- Use scale to compare weights
- Compare height of students and put in order

Extensions:

- On chart paper, make pages to add to interactive story book
- Show objects and ask students to compare and contrast
- Pick a Topic Project
- Enrichment practice pages/ Center Activities
- Daily Challenge Problems
- 3-Act Math
- Calendar Math

Remediation:

- Re-teaching lesson at end of chapter
- Reteaching practice pages
- Provided intervention activities in teacher manuals
- Math tubs/stations
- Small group work

Instructional Methods:

- Whole group instruction
- Small group instruction
- Hands-on manipulatives
- Partner work

Materials & Resources:

- SavvasRealize.com
- Student Editions
- Teacher's manuals
- Practice Worksheets
- Doc Camera
- Jack Hartman Songs
- Teaching tools from computer
- Cubes, paper cups, balancing scale, paper clips, yarn, rulers, rice, beans, water, pencils, crayons
- Technology- Boom Cards, Google slides, math games
- Mathematical Literacy
- enVision STEM Activity
- Problem Solving Leveled Reading Mat
- Problem Solving Reading Activity

Assessments:

- Topic test & alternate test master
- Teacher observation
- Independent practice
- Fluency games- online
- Google Slides