

Teaching Unit: ***1 - Routines***

Essential Understandings

There are many uses for numbers.

There are useful tools that we use in our lives that help us with mathematical concepts.

Sub Topic:

Knowledge and Skills

Practice previously taught skills

Recognize mathematical tools (calendar, thermometer, number line, number grid, template)

Count by 1's, 2's, 5's, and 10's starting with any number

Write whole numbers up to 20

Write the digits 0-9 using correct formation

Compare pairs of numbers (less than, greater than, equal) using numbers up to 20

Count up to 20 objects

Name numbers that come before and after a given number up to 20

Represent numbers using tally marks up to 20

Count forward and backward on a number line to solve simple number stories and problems

Teaching Unit: **2 - Uses of Numbers**

Essential Understandings

We use numbers in our daily lives.

Sub Topic:

Knowledge and Skills

Practice previously taught skills

Recognize and know the value of a penny

Recognize and know the value of a nickel

Exchange 5 pennies for a nickel

Tell time to the nearest hour

Find complements of 10

Solve simple addition and subtraction number stories

Count by 1's to 100

Use a tally chart to answer questions

Teaching Unit: **3 - Patterns**

Essential Understandings

There are many predictable number patterns that can be used to solve everyday problems.

Sub Topic:

Knowledge and Skills

Practice previously taught skills

Identify & complete a predictable pattern

Solve simple addition & subtraction problems by skip counting on the number line and the number grid

Identify numbers as even or odd

Tell time to the nearest half-hour

Solve simple number stories

Recognize and know the value of a dime

Make coin exchanges with pennies, nickels, and dimes

Add combinations of coins and record using cent notation

Teaching Unit: **4 - Measurement & Basic Facts**

Essential Understandings

There are tools for measuring. (standard and nonstandard)

Knowing basic facts can help you to solve number problems.

Sub Topic:

Knowledge and Skills

Practice previously taught skills

Use a ruler and measure to the nearest inch

Solve simple number stories

Order and compare numbers to 100

Tell time to the nearest quarter hour

Find sums for addition facts using number line or counters

Know +0, +1, sums of 10 and doubles

Teaching Unit: **5 - Place Value, Number Stories, and Basic Facts**

Essential Understandings

Solving number problems both mentally and with number model representations is a necessary life skill.

We need to know what numbers mean and be able to compare numbers with each other.

Sub Topic:

Knowledge and Skills

Practice previously taught skills

Find missing numbers and/or the missing rule in "What's My Rule?" problems.

Use base-10 blocks to model whole numbers less than 100

Read, write and represent whole numbers less than 100 modeled by base-10 blocks

Compare numbers and combinations of coins using $<$ and $>$

Know $+1$, $+0$, doubles, and sums of 10 addition facts

Solve simple number stories

Record various temperatures on a thermometer

Teaching Unit: **6 - Fact Power**

Essential Understandings

There are a variety of strategies to solve addition and subtraction problems.

Sub Topic:

Knowledge and Skills

Practice previously taught skills

Use the Addition/Subtraction facts table to find sums and differences of 1-digit whole number problems

Give equivalent names for numbers

Write addition and subtraction problems using $+$, $-$, and $=$

Given 3 numbers, create a fact family

Recognize a quarter and know its value

Teaching Unit: **7 - Geometry**

Essential Understandings

Our world is made up of different shapes.

Sub Topic:

Knowledge and Skills

Practice previously taught skills

Sort and identify objects by attributes

Identify polygons and their characteristics

Write time to the hour, half-hour, and quarter-hour using digital notation

Teaching Unit: **8 - Mental Arithmetic, Money, & Fractions**

Essential Understandings

Knowing how to count combinations of coins will be helpful in everyday situations involving the exchange of money.

There are times in life when people need to know how to divide things into equal parts.

Sub Topic:

Knowledge and Skills

Practice previously taught skills

Give the value of combinations of coins (pennies, nickels, dimes, quarters)

Write using dollar and cents notation

Divide shapes into equal parts (halves, fourths, thirds)

Teaching Unit: **9 - Place Value & Fractions**

Essential Understandings

Fractions can have many equivalent names.

Sub Topic:

Knowledge and Skills

Practice previously taught skills

Solve 2-digit addition and subtraction problems

Compare fractions less than 1

Develop proficiency in adding and subtracting 10's

Use number grids to count, add, and subtract with 10's and 1's

Identify fractional parts of a region

Identify a dollar and know its value

Teaching Unit: **10 - Review & Assessment**

Essential Understandings

It is important to practice and apply math skills everyday.

Sub Topic:

Knowledge and Skills

Review telling time on an analog clock and writing times in digital notation; practice alternate ways of naming times; and calculate elapsed times.

Review showing amounts of money with coins and solve number stories involving addition of 2 -digit numbers.

Solve comparison number stories and calculate amounts of change from purchases.

Review the names and some of the characteristics of polygons & the names of the basic 3-dimensional shapes.

Review temperature readings in degrees Fahrenheit and use the information on a map to find temperature differences.

Review place value through hundreds.

Apply number grid skills to solve number grid puzzles.
