Teaching Unit: ***Section 1 - Number & Numeration***

Sub Topic: ***Measurement & Reference Frames,***

Essential Understandings

Numbers are used in our everyday lives.

Numbers are used to tell how many, what size, what time, what year, etc.

Knowledge and Skills

Compare lengths of two objects by matching ends

Count 1-10 objects, using 1:1 correspondence

Read numbers 0-10

Recognize numbers 0-9 and understand concept of these numbers.

Teaching Unit: ***Section 2 - Geometry***

Sub Topic: ***Number & Numeration***

Essential Understandings

Shapes have names.

Some shapes have lines of symmetry

Knowledge and Skills

Identify and name a triangle and circle

Count 1-15 objects, using 1:1 correspondence

Read numbers 1-15

Understand the concept of symmetry and identify symmetrical objects

Understand spatial relations vocabulary and concepts

Recognize teen numbers

Teaching Unit: ***Section 3 - Patterns, Functions, & Algebra***

Sub Topic: ***Number & Numeration***

Essential Understandings

Physical and numerical patterns are predictable sequences that can be created, described, and extended.

Patterns are useful for determining the next item in a sequence.

Knowledge and Skills

Understand the concepts of addition and subtraction

Write the numerals 0-9

Count and compare teen numbers

Use nonstandard measurement tools and units for measuring length

Use pan balance to compare weight of objects

Use the basic language of probability and understand concept

Create and describe a pattern

Count 1-12 objects and match with written numerals.

Teaching Unit: ***Section 4 - Patterns, Functions, & Algebra***

Sub Topic: ***Geometry; Number & Numeration***

Essential Understandings

Objects can be sorted according to color, shape, and/or size.

Knowledge and Skills

Understand addition and subtraction symbols and terminology

Compare pairs of numbers 0-20 to determine the smaller and larger number

Identify and name a circle, triangle, square, and rectangle.

Create, describe, and extend AB patterns (and other patterns such as ABB, ABC, etc.)

Count by 1s to at least 30

Use rules (such as size, shape, color, or thickness) to sort a collection of objects

Count backwards from 10

Teaching Unit: ***Section 5 - Data and Chance***

Sub Topic: ***Number & Numeration,***

Essential Understandings

A graph can help us answer questions.

We can use probability to help us determine the possibility of an event occurring.

We can describe and measure time periods relative to hours, days, weeks, and years.

Knowledge and Skills

Sequence events and describe time periods of the day

Read and write 2-digit numbers

Answer questions based on a graph

Understand the need for standard measurement tools and units through continued measuring activities

Develop awareness of equivalent names for numbers

Understand the concept of making exchanges

Skip count by 5s to 50

Use tally marks

Teaching Unit: ***Section 6 - Measurement & Reference Frames***

Sub Topic: ***Number & Numeration, Patterns,***

Essential Understandings

Coins have specific sizes, shapes, names and values.

Knowledge and Skills

Count by 10s to 100

Identify pennies, nickels, and dimes and give the value for each

Use attribute rules to find objects

Identify 3-dimensional shapes

Identify various ways to measure and compare time

Skip count by 2s

Understand the concept of half

Teaching Unit: ***Section 7 - Number & Numeration***

Sub Topic: ***Measurement & Reference Frames;***

Essential Understandings

Numbers can have many equivalent names.

Knowledge and Skills

Identify quarter and give value

Create and solve number stories by either adding (joining) or subtracting (taking-away).

Use +, -, = symbols in a number sentence and distinguish addition and subtraction situations

Add small numbers

Use manipulatives to model numbers and make exchanges

Compare and order numbers

Understand the concept of 10s and 1s and place value using concrete materials

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Teaching Unit: ***Section 8 - Operations & Computation***

Sub Topic: ***Patterns, Functions, & Algebra;***

Essential Understandings

We can create and solve number stories by either adding or subtracting.

Knowledge and Skills

Exchange 1s for 10s and 10s for 100s.

Count 1-100

Use the hour hand to estimate time on an analog clock

Understand the concept of hours and minutes

Use Function Machines and function rules

Identify $1 and $10 bills and their values.

Understand "missing number" problems
