

Teaching Unit: **1. Numbers and Routines**

Essential Understandings

We use numbers for many things  
(money, counting, place value, time).

Numbers can have equivalent names.

Sub Topic:

Knowledge and Skills

Ongoing practice with addition facts

Find values of coin and bill combinations.

Know "easy" addition facts to 12.

Identify place value for ones, tens, and hundreds.

Complete number sequences; identify and use number patterns to solve problems.

Find equivalent names for numbers.

Compare numbers: write the symbols  $<$ ,  $>$ , or  $=$

Counts by 2s, 5s, and 10s

Make tallies and give the total.

---

Teaching Unit: **2. Addition and Subtraction Facts**

Essential Understandings

Automaticity of math facts frees up the learner for higher level of thinking.

Addition and subtraction equations can be represented in story format.

Sub Topic:

Knowledge and Skills

Ongoing practice with addition and subtraction facts to 18.

Complete "What's My Rule?" tables.

Solve simple subtraction number stories

Construct fact families for addition and subtraction up to 18

Complete simple (one rule) Frames-and-Arrows diagrams

Solve simple addition number stories

Find equivalent names for numbers

---

Teaching Unit: **3. Place Value, Money and Time**

Essential Understandings

It is important to be able to accurately count change, tell time, and know place value to survive in the everyday world.

Sub Topic:

Knowledge and Skills

Ongoing practice with addition and subtraction facts to 18.

Solve Frames and Arrows problems having 2 rules.

Make change by using the counting up strategy.

Tell time to 5 min. intervals.

Identify place value in 2-digit and 3-digit numbers.

Show P, N, D, and Q for a given amount of money.

---

Teaching Unit: **4. Addition and Subtraction**

Essential Understandings

There are a variety of strategies to help solve 2-digit addition and subtraction stories.

It is important to be able to read a thermometer accurately.

Sub Topic:

Knowledge and Skills

Ongoing practice with addition and subtraction facts to 18.

Devise and use strategies for finding sums of 2-digit numbers, such as the partial sums algorithm.

Devise and use strategies for finding differences of 2-digit numbers.

Use ballpark estimates (rounding to the closest 10) to approximate costs and sums (total).

Read degree F on a thermometer.

---

Teaching Unit: **5. 3-D and 2-D Shapes**

Essential Understandings

We encounter and use various shapes every day.

Lines can take on many shapes, forms, and lengths.

Sub Topic:

Knowledge and Skills

Ongoing practice with addition and subtraction facts to 18.

Identify 3-dimensional shapes, such as rectangular prisms, cylinders, pyramids, cones, and spheres.

Identify symmetrical figures.

Find common attributes of shapes.

Identify parallel and not parallel line segments.

Draw line segments.

Identify 2-dimensional shapes

---

Teaching Unit: **6. Whole-Number Operations and Number Stories**

Essential Understandings

Trade-first is a strategy for 2-digit subtraction problems.

Sub Topic:

Knowledge and Skills

Ongoing practice with addition and subtraction facts to 18.

Solve equal-grouping and equal-sharing division problems using manipulatives.

Use the trade-first method to solve 2-digit subtraction problems

Make ballpark estimates rounding to the nearest 10.

Explore multiplication using arrays.

Add three 2-digit numbers mentally.

Add and subtract with multiples of 10.

Solve addition and subtraction number stories.

Add three 1-digit numbers mentally.

---

Teaching Unit: **7. Patterns and Rules**

Essential Understandings

Number patterns are used to develop counting skills.

There are a variety of strategies to find complements of 10.

People collect and interpret real life data to share information.

Sub Topic:

Knowledge and Skills

Ongoing practice with addition and subtraction facts to 18.

Add 3 numbers mentally.

Measure to the nearest inch and centimeter

Know the complements of 10.

Count by 2s, 5s, and 10s and describe the patterns.

Solve number grid puzzles.

Plot data on a bar graph.

Solve a 2-digit addition problem.

Write a number model ( $4 + 5 = 9$ )

Understand doubling.

---

Teaching Unit: **8. Fractions**

Essential Understandings

Fractions can represent the whole or part of an object.

Sub Topic:

Knowledge and Skills

Ongoing practice with addition and subtraction facts to 18.

Compare fractions. ( $1/2 > 1/4$ )

Understand that the amount represented by a fraction depends on the size of the whole. (ONE)

Recognize equivalent fraction names. ( $1/2 = 2/4 = 3/6$ )

Shade a specified fractional part of a region.

Write the fraction name for the shaded part of a shape.

---

Teaching Unit: **9. Measurement**

Essential Understandings

Objects can be measured with a variety of standard and nonstandard tools.

All objects have an area and perimeter that can be measured.

Sub Topic:

Knowledge and Skills

Ongoing practice with addition and subtraction facts to 18.

Measure to the nearest inch and centimeter.

Count unit squares to find area.

Find perimeter by measuring to the nearest centimeter/inch.

Identify equivalencies for inches, feet, and yards.

Use a ruler, tape measure, and meter/yardstick correctly.

---

Teaching Unit: **10. Decimals and Place Value**

Essential Understandings

The position of a digit within a number determines its value.

We can use a variety of combinations of coins to show the same value.

Sub Topic:

Knowledge and Skills

Ongoing practice with addition and subtraction facts to 18.

Solve money stories involving change.

Read and write money amounts in decimal notation.

Use equivalent coins to show money amounts in different ways.

Use a calculator to compute money amounts.

Know and express automatically the values of the digits in 2, 3, and 4 digit numbers.

---

Teaching Unit: **11. Whole Number Operations**

Essential Understandings

There are strategies to use to help solve basic multiplication and division problems (groupings, counting, pictures).

Sub Topic:

Knowledge and Skills

Review addition and subtraction number stories with dollars and cents.

Solve 1-digit multiplication stories (multiples of equal groups).

Solve simple division stories (equal sharing and equal grouping).

Multiply numbers with 0, 1, 2, 5, or 10 as a factor.

Construct multiplication/division fact families.

---

Teaching Unit: **12. Year End Reviews and Extensions**

Essential Understandings

Review and apply skills learned throughout the year.

Sub Topic:

Knowledge and Skills

Review, practice, and extend all skills learned in units 1 - 11.

---