

Big Idea: Students will be able to read, write & count numbers 0-12, identify ordinal numbers, and use a number line to count on & back.

Unit Essential Question
 How do we read, write & count numbers from 0 through 12?

Skill: Reading ,writing & counting
 Numbers 0 through 12.

Skill: Identifying numbers that are
 one more, one fewer, before, after
 & between a given number.

Skill: Identifying ordinal numbers
 & ordinal number words 1st (first)
 through 10th(tenth).

Lesson Essential Questions:
 How do we read, write & count
 numbers 0 through 12?

How do we use a number line to
 count on and back with numbers
 0 through 12?

Lesson Essential Questions:
 How do we identify numbers that
 are one more, one fewer, before,
 after & between a given number?

Lesson Essential Questions:
 How do we identify the ordinal
 number positions 1st through 10th?
 How do we identify the ordinal
 number words first through tenth?

Vocabulary:
 Zero eight
 One nine
 Two ten
 Three eleven
 Four twelve
 Five
 Six
 Seven

Vocabulary:
 Fewer greater than
 More less than
 Before
 After
 Between
 Number line
 Count on
 Count back

Vocabulary:
 Ordinal numbers
 First eighth
 Second ninth
 Third tenth
 Fourth eleventh
 Fifth twelfth
 Sixth
 seventh

Big Idea: Students will be able to add numbers with sums to 12, write addition sentences, identify patterns & solve problems with sums to 12.

Unit Essential Question
 How do we solve addition problems with sums to 12?

Skill: Understanding addition as a joining of groups. Writing addition sentences with sums to 12.

Skill: Adding doubles & doubles plus 1 for sums to 12.

Skill: Adding 3 addends with sums to 12

Lesson Essential Questions:
 How do we use addition to show the joining of groups?

 How do we write addition sentences with sums to 12?

Lesson Essential Questions:
 How do we use doubles & doubles plus 1 facts to solve addition problems?

Lesson Essential Questions:
 How do we solve addition problems with 3 addends?

Vocabulary
 Add horizontal
 Plus
 Equals
 Addend
 Sum
 Number sentence
 vertical

Vocabulary:
 Doubles
 Doubles plus 1

Vocabulary:
 Addition strategies

Big Idea: Students will be able to solve subtraction problems, learn subtraction facts to 12, & relate addition & subtraction sentences.

Unit Essential Question
 How do we solve subtraction problems from 12 or less, in both vertical & horizontal forms, and relate addition and subtraction?

<p>Skill: Understanding subtraction as a separation of groups. Writing subtraction sentences from 12 or less in vertical & horizontal form.</p>	<p>Skill: Adding & subtracting with zero. Subtracting by counting back with a number line.</p>	<p>Skill: Identifying related addition & subtraction facts and completing fact families.</p>
<p>Lesson Essential Questions: How do we use subtraction to show the separation of groups? How do we write subtraction sentences in vertical & horizontal forms?</p>	<p>Lesson Essential Questions: How do we use a number line to subtract by counting back? How do we add & subtract with zero?</p>	<p>Lesson Essential Questions: How do we identify fact families as related addition & subtraction facts?</p>
<p>Vocabulary Subtract Minus Difference Vertical horizontal</p>	<p>Vocabulary: Number line Counting back Zero</p>	<p>Vocabulary: Related addition & subtraction facts Fact families More fewer</p>

Big Idea: Students will be able to read and interpret data from various kinds of graphs.

Unit Essential Question
How do we read different kinds of graphs to find out information?

Skill: Reading a venn diagram, tally chart, real graph, picture graph, pictograph, bar graph.

Skill: Taking a survey and putting the information into a graph

Skill: Finding range, mode and median for a group of numbers?

Lesson Essential Questions:
How do you use a Venn diagram?
How do you make tally marks?
How do you read a real graph?
How do you read a pictograph?
How do you read a picture graph?
How do you read a bar graph?

Lesson Essential Questions:
How do you take a survey and put the information into a graph to show the results?

Lesson Essential Questions:
How do you find the range, mode and median for a set of numbers?

Vocabulary
Venn diagram
Tally marks
Tally chart
Real graph
Pictograph
Picture graph
Bar graph

Vocabulary:
survey

Vocabulary:
Range
Greatest
Least
Median
Middle
Mode
Most often

Big Idea: Each number has a value

Unit Essential Question

What is the value of a number and their relationship to other numbers?

Skill:
Tens and Ones

Skill:
Number placement in relationship
to other numbers

Skill:
Skip counting

Lesson Essential Questions:

How do you show the numbers
1-100 in place value form?

Lesson Essential Questions:

How do you determine a value of a
designated digit of a number?

How do you compare two-digit
numbers using the symbols $<$, $=$ and
 $>$?

Lesson Essential Questions:

How do you count by 2s, 5s and
10s?

Vocabulary

Tens
Ones
10 ones = 1 ten
Two digit number

Vocabulary:

Estimate
Value
Digit
Expanded form
Compare
Hundred Chart

Vocabulary:

Even and Odd
Count by 2s
Count by 5s
Count by 10s

Big Idea: Students will be able to add and subtract numbers with sums to 20, write addition sentences, identify patterns & solve problems with sums to 20.

Unit Essential Question
How do we solve addition and subtraction problems with sums to 20?

<p>Skill: Understanding addition as a joining of groups and subtraction as a removing of objects. Writing addition and subtraction sentences to 20.</p>	<p>Skill: Fact Families</p>	<p>Skill: Adding 3 addends with sums to 20</p>
<p>Lesson Essential Questions:</p> <p>How do we use addition to show the joining of groups?</p> <p>How do we write addition and subtraction sentences to 20?</p> <p>How do we use subtraction to show the difference of two numbers?</p>	<p>Lesson Essential Questions:</p> <p>How do you show that addition and subtraction sentences are related?</p> <p>How can you use the same three numbers to make 2 addition and 2 subtraction problems?</p>	<p>Lesson Essential Questions:</p> <p>How do we solve addition problems with 3 addends?</p>
<p>Vocabulary</p> <p>Add horizontal</p> <p>Plus subtract</p> <p>Equals difference</p> <p>Addend whole</p> <p>Sum part</p> <p>Number sentence</p> <p>vertical</p>	<p>Vocabulary:</p> <p>Related addition facts</p> <p>Related subtraction facts</p> <p>Fact family</p>	<p>Vocabulary:</p> <p>Addition strategies</p>

Big Idea:

Geometry is the understanding of objects in space.

Unit Essential Question

What is geometry?

Skill:
Identify solids and shapes

Skill:
Recognize solids, shapes and symmetry

Skill:
Model plane figures, shapes & symmetry

Lesson Essential Questions:

How do you identify plane figures?

How do you identify, sort solids, patterns and congruent shapes.

How do you verify lines of symmetry?

Lesson Essential Questions:

How do you recognize and sort plane figures by shape?

How do we locate ordered pairs on a grid?

Lesson Essential Questions:

What representation of plane figures are in the environment?

Vocabulary

sides
vertex (corner)
solid figures
roll
slide
cube
rectangular prism

cylinder
stack
flip
turn
symmetry
sphere
cone

Vocabulary:

closed figure
open figure
plane figure
flat surface
curved surface
edge
face

Vocabulary:

circle
square
rectangle
triangle

Big Idea: Money is used to buy things

Unit Essential Question
How do we count money?

Skill:
Identify coins

Skill:
Identify coin value

Skill:
Count mixed coins

Lesson Essential Questions:
What does a penny, nickel, dime and quarter look like?

Lesson Essential Questions:
How much is a penny, nickel, dime, and quarter worth?

Lesson Essential Questions:
How do we count mixed coins together?

Vocabulary

penny
nickel
dime
quarter

Vocabulary:

cent penny=1¢
¢ nickel=5¢
= dime=10¢
 quarter=25¢

Vocabulary:

touch points
county by 5's

Big Idea: We use clocks and calendars in our everyday lives.

Unit Essential Question:
How do I read and use a clock and a calendar?

Skill:
Tell time to the hour and half hour

Skill:
Determine and estimate lengths of time

Skill:
Read and use a calendar

Lesson Essential Questions:

- *How do I tell time to the hour?
- *How do I tell time to the half hour?
- *How can I identify half hour and hour time patterns?

Lesson Essential Questions:

- *How do I identify the length of elapsed time to the hour?
- *How do I identify the length of elapsed time to the half hour?
- * How do I identify if a task takes about one hour or about one minute?
- *How do I order events using morning, afternoon, and evening?

Lesson Essential Questions:

- * How do I identify, read, and write ordinal numbers 11th through 31st?
- *How do I read and understand a calendar?
- *How do I solve problems involving a calendar?

Vocabulary:
digital clock
analog clock
hour hand
minute hand
half past
one half hour
half hour pattern
hour pattern

Vocabulary:
elapsed time
about one minute
about one hour
morning, afternoon, evening
events

Vocabulary:
ordinal numbers
calendar
months
year
weeks
days
date

Big Idea: We measure with standard + non-standard units.

Unit Essential Question
How do we measure objects?

Skill:
Measure length and height

Skill:
Measure capacity/weight

Skill:
Measure temperature

Lesson Essential Questions:

How do you use nonstandard units to estimate length/height?
How do you count nonstandard units to find perimeter?
 How do you compare/order length and height?
How do you estimate length to the nearest inch/centimeter?
 How do you compare any objects length to 1 foot?

Lesson Essential Questions:

How do you use nonstandard units to estimate capacity?
 How do you compare cups, pints, and quarts?
 How do you use nonstandard units to estimate weight?
 How do you compare any objects weight to 1 pound, 1 liter, 1 kilogram?

Lesson Essential Questions:

How do you read a thermometer?
 How do you choose an appropriate measuring tool?

Vocabulary

Length centimeter
 Height centimeter ruler
 Perimeter
 Inches
 Inch ruler
 Foot
 Width

Vocabulary:

Weight
 Pound
 Capacity
 Cups
 Pints
 Quarts

Vocabulary:

Thermometer
 Degrees F
 Temperature

Student Learning Map for Unit Topic:
Addition: Two-Digit Numbers

Unit 10

Big Idea: Students will be able to add 2-digit numbers

Unit Essential Question
 How do we add two digit numbers?

Skill: Adding two digit numbers with no regrouping

Skill: Estimate

Skill: Adding tens and ones with regrouping

Lesson Essential Questions:

- How do we add multiples of ten, including dimes, to sums of 90?
- How do we use models to add ones and tens with no regrouping?
- How do we check our sum using the commutative property of addition?
- How do I count on using ones or tens?
- How do we add dimes and pennies?

Lesson Essential Questions:

- How do we round to the nearest ten?
- How do we find the nearest ten?

Lesson Essential Questions:

- How do we regroup 10 ones as 1 ten?
- How do we add ones and tens, regrouping ones?
- How do we add money when regrouping 10 pennies as 1 dime?

Vocabulary

- Add
- Plus
- Equals
- Addend
- Sum
- Number sentence
- Vertical
- Models
- Commutative Property
- Tens
- Horizontal
- Count on
- Dime
- Penny
- Ones

Vocabulary:

- Rounding
- Nearest ten

Vocabulary:

- Regroup
- 10 ones can be regrouped as 1 ten

Big Idea: We can subtract 2-digit numbers with or without regrouping.

Unit Essential Question:
 How do I subtract 2-digit numbers?

Skill:
 Subtract ones and tens without regrouping

Skill:
 Explore rounding and estimating differences

Skill:
 Subtract ones and tens with regrouping

Lesson Essential Questions:

- How do you subtract ones and tens without regrouping?
- How do you use addition to check subtraction?
- How do you subtract 2-digit money amounts without regrouping?
 How can you use mental math to subtract 2-digit and 1-digit numbers?

Lesson Essential Questions:

*How do you use rounding to estimate differences?

Lesson Essential Questions:

- *How do I regroup 1 ten for 10 ones?
- *How do you subtract ones and tens with regrouping?
- *How do you subtract 2-digit money amounts with regrouping?
- *How can I use mental math to add and subtract 2 digit and 1 digit numbers?

Vocabulary:
 1-digit number
 2-digit number
 difference
 tens
 ones
 minus
 take away
 mental math

Vocabulary:
 estimate
 rounding

Vocabulary:
 regroup

Big Idea: We divide objects and sets into fractions. We can use probability to determine the likelihood of an event.

Unit Essential Question:
 How do we divide object and sets into equal part using fractions?
 How can we determine the likelihood of an event using probability?

Skill:
 Explore fractions, including $\frac{1}{2}$, $\frac{1}{3}$, and $\frac{1}{4}$

Skill:
 Explore the basics of probability

Skill:

Lesson Essential Questions:

- * How do I identify equal parts of a whole?
- *How do I identify one half of a whole?
- *How do I identify one third of a whole?
- *How do I identify one fourth of a whole?
- *How do I identify the appropriate fraction of a set?

Lesson Essential Questions:

- *How do I identify events that are certain to occur, possible to occur, or impossible to occur?
- *How do I determine if an event is more likely, less likely, or equally likely to occur?
- *How can I find the number of different ways to arrange objects given to me?

Lesson Essential Questions:

Vocabulary:
 equal parts
 fair share
 whole
 one half, $\frac{1}{2}$, halves
 fraction
 one third, $\frac{1}{3}$, thirds
 one four, $\frac{1}{4}$, fourths
 part of a set

Vocabulary:
 certain
 possible
 impossible
 more likely
 less likely
 equally likely

Vocabulary: