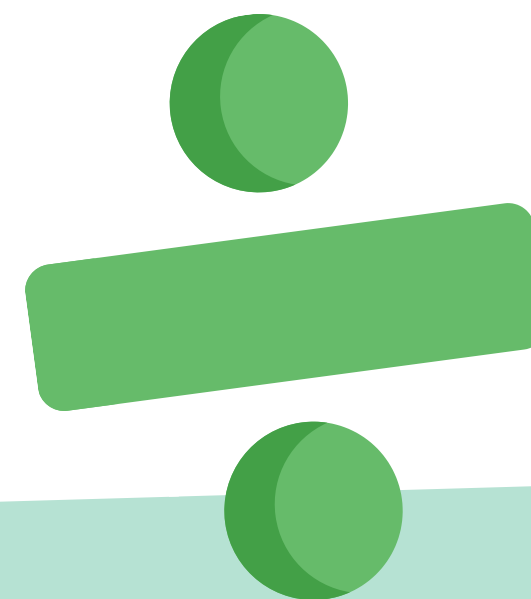
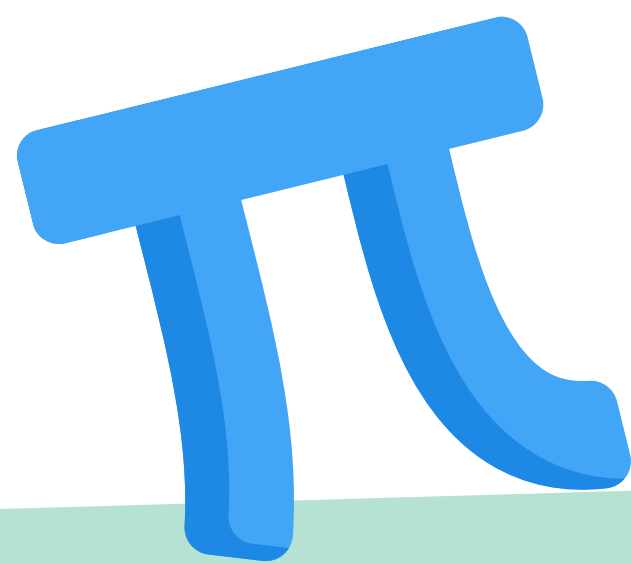
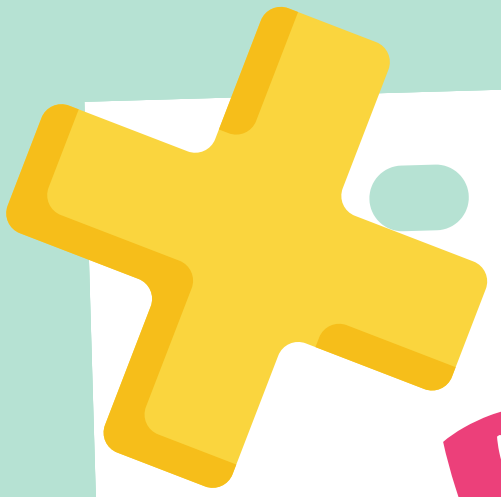




First Grade

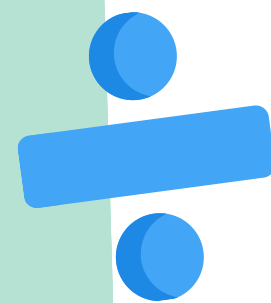
Math Curriculum

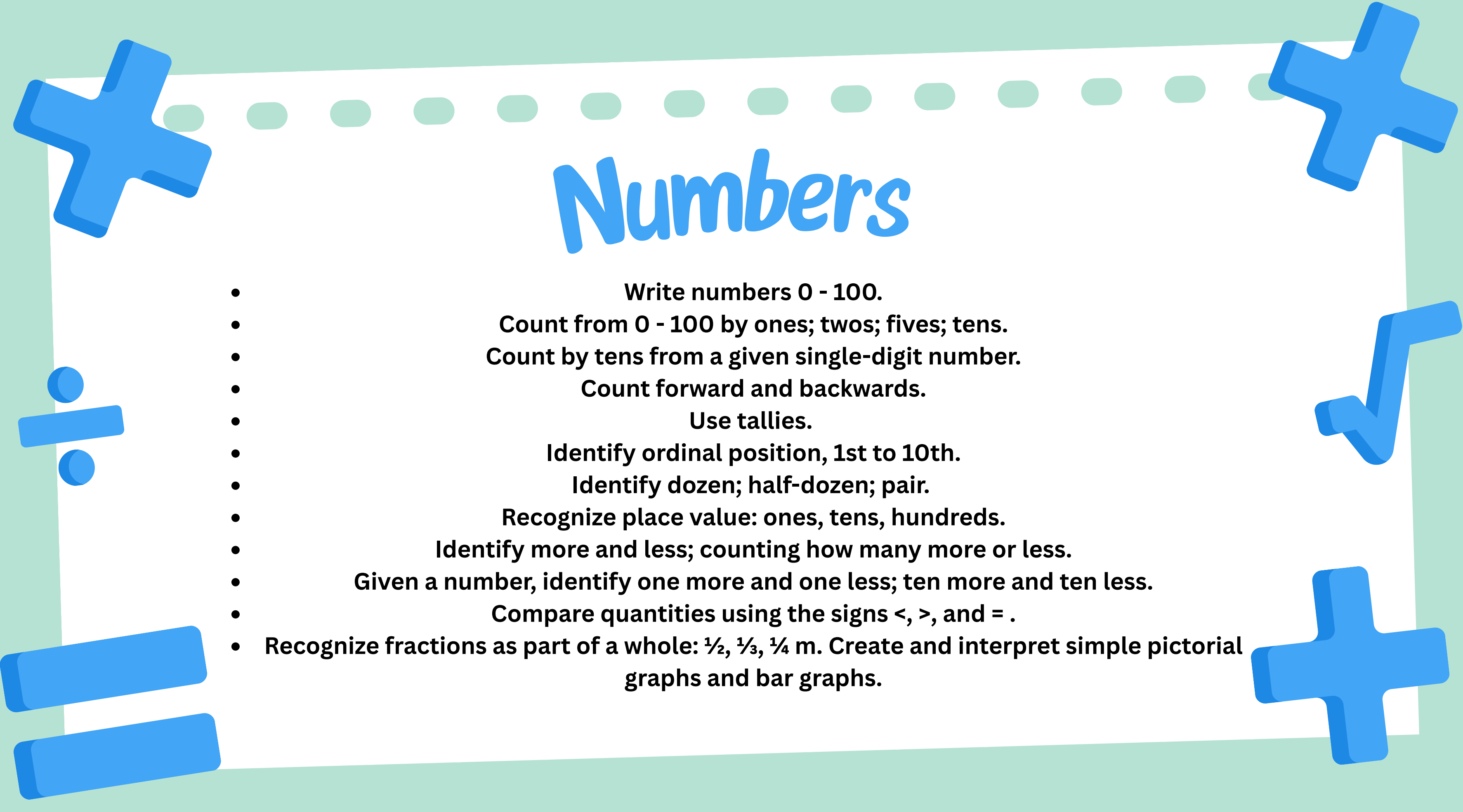




Patterns and Classification

- Establish concepts of likeness and difference by sorting and classifying objects according to various attributes: size, shape, color, amount, function, etc.
 - Define a set by the common property of its elements.
 - In a collection of objects that includes a given set and an item that does not belong, indicate which item does not belong.
 - Recognize patterns and predict the extension of a pattern.
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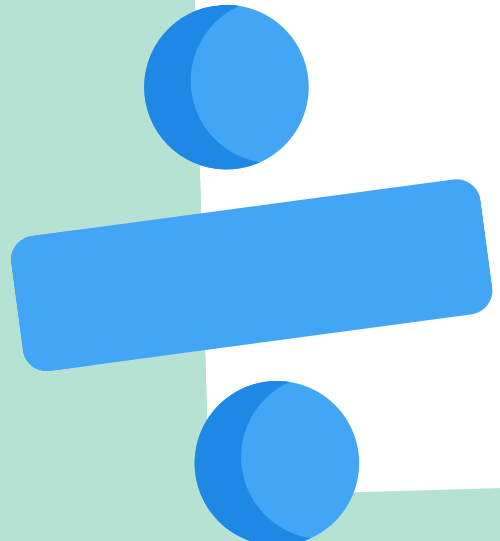


Numbers

- Write numbers 0 - 100.
- Count from 0 - 100 by ones; twos; fives; tens.
- Count by tens from a given single-digit number.
- Count forward and backwards.
- Use tallies.
- Identify ordinal position, 1st to 10th.
- Identify dozen; half-dozen; pair.
- Recognize place value: ones, tens, hundreds.
- Identify more and less; counting how many more or less.
- Given a number, identify one more and one less; ten more and ten less.
- Compare quantities using the signs $<$, $>$, and $=$.
- Recognize fractions as part of a whole: $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$ m. Create and interpret simple pictorial graphs and bar graphs.



Money

- Identify and recognize relative value of penny, nickel, dime, quarter.
 - Recognize and use dollar (\$) and cents (¢) signs.
 - Show how different combinations of coins equal the same amounts of money.
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Computation

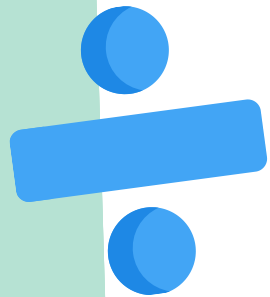
- Addition (using concrete objects, and paper and pencil)
 - Know the meaning of the plus (+) sign.
 - Know what a “sum” is.
 - Know addition facts to $10 + 10$ (untimed mastery).
 - Add in any order.
 - Know what happens when you add zero.
 - Know how to write addition problems horizontally and vertically.
 - Know that when you add 3 numbers, you get the same sum regardless of grouping of addends.
 - Solve two-digit addition problems with and without regrouping.





Computation

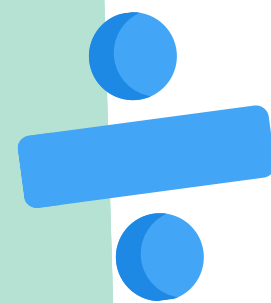
- Subtraction (using concrete objects, and paper and pencil)
 - Understand subtraction as “taking away.”
 - Know the meaning of the minus sign (-).
 - Know what a “difference” is.
 - Know subtraction facts corresponding to addition facts (untimed mastery).
 - Know how to write subtraction problems horizontally and vertically.
 - Solve two-digit subtraction problems with and without regrouping.
 - Mentally subtract 10 from a two-digit number





Computation

- **Solving Problems and Equations**
 - Write an addition or subtraction equation to solve basic one-step story and picture problems.
 - Solve simple equations in the form of $__ - 2 = 7$; $5 + __ = 7$.





Measurement

- Identify familiar instruments of measurement, such as ruler, scale, thermometer.
- Compare objects according to
 - Linear measure
 - Measure length using non-standard units.
 - Measure length in inches and feet, and in centimeters.
 - Measure and draw line segments in inches and centimeters.
 - Weight
 - Compare weights of objects using a balance scale.
 - Measure weight in non-standard units and in pounds.
 - Capacity (volume)
 - Estimate and measure capacity in cups.
 - Identify quart, gallon.
- Temperature: associate temperature in degrees Fahrenheit with weather
- Time
 - Sequence events: before and after; first, next, last.
 - Compare duration of events: which takes more or less time.
 - Read a clock face and tell time to the half-hour.
- Know the days of the week and the months of the year, both in order and out of sequence.
- Orientation in time: today, yesterday, tomorrow; morning, afternoon, evening, night; this morning vs. yesterday morning, etc.



Geometry

- Identify left and right hand.
 - Identify top, bottom, middle.
 - Know and use terms of orientation and relative position, such as:
 - closed, open around
 - on, under, over far from, near
 - in front, in back (behind) above, below
 - between, in the middle of to the right of, to the left of
 - next to, beside here, there
 - inside, outside
 - Identify and draw basic plane figures: square, rectangle, triangle, circle.
 - Describe square, rectangle, triangle according to number of sides.
 - Identify basic solid figures: sphere, cube, cone.
 - Identify basic shapes in a variety of common objects and artifacts (balls, cans, windows, pictures, books, buildings, cars, etc.).
 - Make congruent shapes and designs.
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