

Number

Kindergarten HLC

Understanding of number values and sequences to 20 (counting, cardinality, and stable order)
1:1 Correspondence Comparing quantities

September

Kindergarten Learning Progressions

June

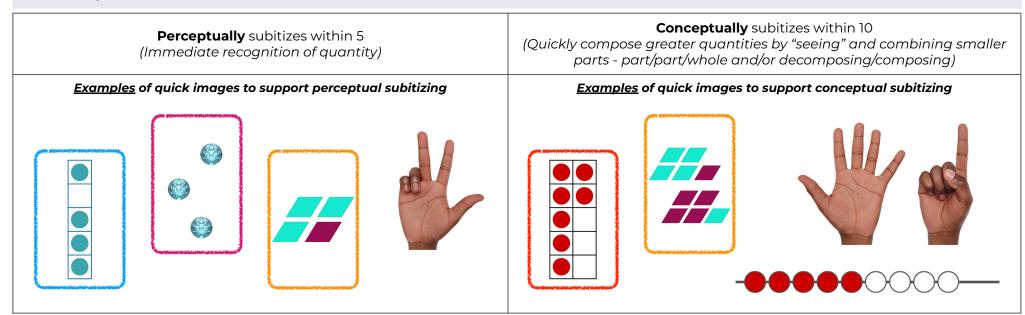
Students must use models to build understanding of the HLC and interact with a variety of contexts.

Rote Oral Count Sequence

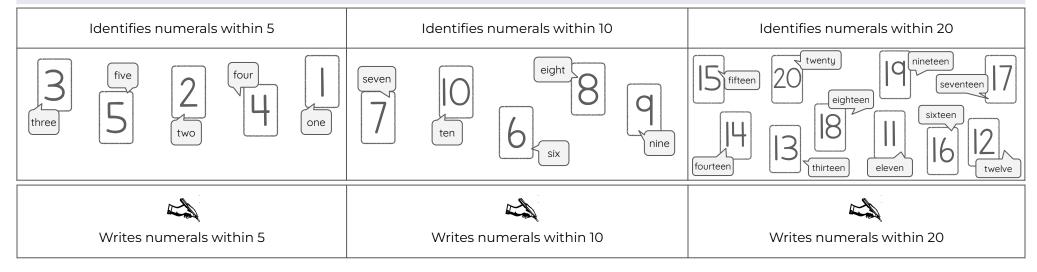
Counts Forward (FWD) from 1 to 5		Counts FWD from 1 to 10		Counts FWD from 1 to 20		Counts FWD within the range 1-20 starting at any number	
one, two, three, four, five		one, two, three, four, five, six, seven, eight, nine, ten		one, two, three, four, five, six, seven, eight, nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen, seventeen, eighteen, nineteen, twenty		three, four, five, six, seven, eight, nine eight, nine, ten, eleven, twelve, thirteen, fourteen, fifteen fifteen, sixteen, seventeen, eighteen, nineteen, twenty	
Counts Backward (BWD) from 3	Counts BWD from 5		Counts BWD from 10		Counts BWD from 20		Counts BWD within the range 1-20, starting at any number
three, two, one	five, four, three, two, one		ten, nine, eight, seven, six, five, four, three, two, one		twenty, nineteen, eighteen, seventeen, sixteen, fifteen, fourteen, thirteen, twelve, eleven, ten, nine, eight, seven, six, five, four, three, two, one		Examples only: eleven, ten, nine, eight, seven twenty, nineteen, eighteen, seventeen, sixteen seventeen, sixteen, fifteen, fourteen, thirteen



Subitizing (immediate recognition of quantity - five and ten frames, fingers, regular dot patterns, irregular dot patterns)



Symbolic Notation Reversals in numeral formation are expected at this developmental stage, but transpositions (eg., 71 for 17) are an indicator of a misconception and may interfere with representing quantities.





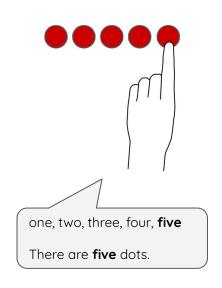
Count Objects to Determine Cardinality (cardinality demonstrates understanding that the last number in the count is the quantity)

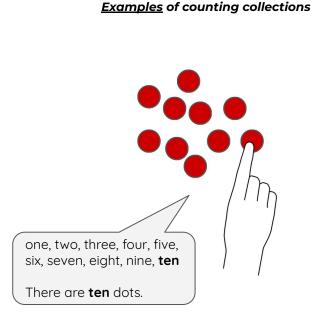
Students are given amounts of discrete objects to determine the total quantity. All of the skills noted below are observable during a Counting Collection. Each understanding might develop at different times for each number range.

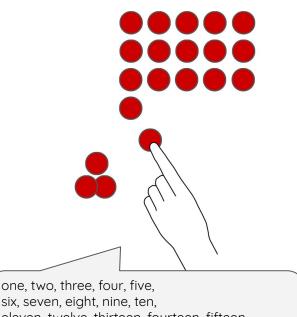
Counts objects within 10 Counts objects within 20 Counts objects within 5

The following understandings develop at different times for each number range:

- -1:1 correspondence (each item gets one count)
- -Organizing (keep track of what's been counted and what still needs to be counted without prompting)
- -Tracking methods (the actual gesture of touching and counting)
- -Stable order (correct number word sequence)
- -Cardinality (last number in the count is the quantity)
- -Conservation of number (quantity is the same regardless of arrangement ex; objects lined up, then spread out, organized by 10 or not organized)







six, seven, eight, nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen, seventeen, eighteen, nineteen, twenty

There are **twenty** dots.



Ordering & Magnitude

For various quantities, students may compare by subitizing, matching (1:1) lining items up, or counting quantities. This concept is also impacted by conservation of number - consistent count regardless of orientation ("It is still 4, the cubes are just spread out").

