

### FLUENCY WITH NUMBER AND NUMBER RELATIONSHIPS

#### UNIT SUMMARY

In this unit students will continue to develop their knowledge of number from PreK to develop fluency with concept of number and number relationships. They will also **begin** to develop proficiency with counting forwards, backwards and skip counting within 100 and accurately representing numbers by writing the digits 0 - 9 correctly. They will **begin** to develop fluency with basic facts (facts to five, facts with five, doubles to ten, etc.) and be exposed to a variety of tools (fives frames, tens frames, rekenrek, abacus, number lines etc.) to visually represent numbers. Students will develop their concept of number groupings and place value by being able to instantly recognize patterns (subitizing) with numbers to ten (dice, tens frames, dominos, fingers, as well as random dot patterns to 10). Students will apply their knowledge and understanding of number by solving real life problems involving situations that involve adding to and taking from with the result unknown, and putting together and taking apart with the total unknown. The individual number profiles will be used to differentiate experiences for this unit.

#### ENDURING UNDERSTANDINGS (EU)

Representing numbers in different ways helps us communicate our understanding to others. Mathematicians use their number knowledge to answer questions and solve problems accurately, efficiently and flexibly.

#### ESSENTIAL QUESTIONS (EQ)

How might we represent numbers in different ways? (Build it: Using concrete materials to represent thinking. Draw it: Using numbers, words and/or pictures to represent thinking)

Why is it important to communicate your thinking?

What do you know that helped you solve that?

What does being efficient/flexible/accurate look like?

#### I CAN STATEMENTS

I can write a number to match a group of objects.

I can order numbers.

I can count forwards and backwards in different ways.

I can compare numbers.

I can instantly know the number of objects in a group/picture.

I can show my thinking using numbers, words and/or pictures when solving problems.