## Canterbury Public School

## Illustrative Mathematics promotes the following:

"In Kindergarten, instructional time should focus on two critical areas: (1) representing and comparing whole numbers, initially with s of objects; (2) describing shapes and space. More learning time in kindergarten should be devoted to numbers than to other topics. Upon completion of this course students will have the ability to:

- Know number names and the count sequence.
- Count to tell the number of objects.
- Compare numbers.
- Understand addition as putting together and adding to and understand subtraction as taking apart and taking from.
- Work with numbers 11-19 to gain foundations for place value.
- Describe and compare measurable attributes.
- Classify objects and count the number of objects in each category.
- Identify and describe shapes.

Analyze, compare, create, and compose shapes

## Scope and Sequence

## Narrative

The big ideas in kindergarten include: representing and comparing whole numbers, initially with sets of objects; understanding and applying addition and subtraction; and describing shapes and space. More time in kindergarten is devoted to numbers than to other topics.

The mathematical work for kindergarten is partitioned into 8 units:

1. Math in Our World
2. Numbers $1-10$
3. Flat Shapes All Around Us
4. Understanding Addition and Subtraction
5. Composing and Decomposing Numbers to 10
6. Numbers 0-20
7. Solid Shapes All Around Us
8. Putting it All Together

In these materials, particularly in units that focus on addition and subtraction, teachers will find terms that refer to problem types, such as Add To, Take From, Put Together or Take Apart, Compare, Result Unknown, and so on. These problem types are based on
common addition and subtraction situations, as outlined in Table 1 of the Mathematics Glossary section of the Common Core State Standards."

Unit 1 Kindergarten Math

| Math |  |
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| Grade Level | Kindergarten |
| Unit Title | Unit 1 Math In Our World |
| Unit Goals | Section A: Explore Our Math Tools <br> Students recognize numbers and quantities in their world <br> K.CC, K.G, K.G.B <br> Section B: Recognize Quantities <br> Recognize and name groups of up to 4 objects and images without <br> counting <br> K.CC, K.CC.B.4 <br> Section C: Are There Enough? Count and compare numbers and <br> quantities <br> K.CC <br> Section D: Counting Collections: count numbers in sequence, count on |


| Content/con <br> ceptual <br> knowledge | I will know number names and count in sequence <br> I will count to tell the number of objects <br> I will compare numbers <br> I can name numbers and count in sequence <br> I can count objects one at a time, saying the number as I <br> count <br> I can describe shapes and where they are located in <br> relation to other shapes and objects <br> Take turns and share my thoughts and ideas about <br> numbers and counting |
| :--- | :--- |
| Quantify without counting objects <br> Match groups that have the same number of images and <br> notice that the same quantity can be arranged in many <br> different ways <br> Develop the language to express ideas and listen to the <br> ideas of their peers <br> 1 to 1 correspondence -match one object to one person or <br> image to answer "are there enough?" <br> Subitize quantities. Recognize without counting |  |
| Pacing | Approx. 4-6 weeks |


| Standards <br> Addressed | K.CC, K.G, K.G.B <br> Section B: Recognize Quantities <br> K.CC, K.CC.B. 4 <br> Section C: Are There Enough? <br> Answer are there enough questions <br> Count and compare numbers and quantities <br> K.CC <br> Section D: Counting Collections: count numbers in sequence, count on, identify and draw shapes <br> Count up to 10 objects and answer "how many of $\qquad$ are there?" <br> 1-1 matching <br> Idea of cardinality the last number tells how many there are <br> K.CC, K.CC.A.1, K.CC.B, K.CC.B.4, K.CC.B.4.a, K.G.B <br> Counting and Cardinality: I know when I count the last number is how many objects there are, I know that no matter which wait I count the objects, the number will still be the same. <br> I can count objects one at a time, saying one number at a time as I count. |
| :---: | :---: |
| Essential Questions | How do I count? <br> How can I use tools to help me count objects? <br> How do I know how many? |
| Enduring Understandi ngs | Math can be found everywhere around me I can use math tools to help me count objects There are strategies that I can use to help me count and identify quantities |
| Vocabulary | Over, under, besides, square, cube, rectangle, |


| Common <br> learning <br> Experiences | Explore our Math Tools <br> Explore and use math tools. <br> Explore and use connecting cubes <br> Orally describe a mathematical idea <br> Explore and use pattern blocks <br> Share mathematical ideas with a partner <br> Explore and use counters and 5 frames <br> Repeat mathematical ideas shared by a partner <br> Explore and use geoblocks <br> Repeat mathematical ideas shared by a partner <br> Explore and use math tools <br> Listen to partner's mathematical ideas <br> Describe to a partner how they saw groups of objects or images |
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| Learn structures and routines for centers, create norms for classroom learning, |  |
| And begin to build a mathematical community of learners. |  |
| PLC Lesson 2 warm-up, Notice and Wonder, Pattern Blocks |  |
| PLC Introduce picture books - Activity 2 |  |
| PLC Activity 2 Are There Enough |  |
| PLC Activity 1 counting collections |  |



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| Strategies <br> used | Turn and talk <br> Count using manipulatives |
| Other <br> information |  |

