MATH YEAR AT A GLANCE – grade 1(*see curriculum for Elaborations)*

*This is a suggested sequence for teaching concepts and content in a grade 1 year. It is not meant to be prescriptive, but supportive, to newer teachers who want a sense of how a year might roll out. Authors cited are: J. Shumway, “Number Sense Routines”; C. Fosnot, “Young Mathematicians at Work”; J. Lempp, “Math Workshop” & J. Boaler, “Mathematical Mindsets”.*

*Concepts are first taught in the ‘full’ 45 – 60 min. lesson (that is, ‘Before-Explore-Connect-practice’). Once they are established, they are ‘rolled over’ into the daily 5-10 min. ‘Number Sense Routine’ which can happen before the full lesson, or at a different time of the day. This allows for deeper mastery, for sharing of strategies and for concepts to get ‘into their bones’.*

*Note: In grade 1, 4/11 content standards are Number Sense, and 1/11 are Patterns and Algebra. 5/11 are the other strands – Shape & Space, Data & Probability and financial literacy).* ***45% of the Content is Number and Algebra, so 45% of your math time should be, too.***

**Sept.**

|  |  |
| --- | --- |
| Number Sense Routine (5-10 min/day) | * Introduce Number talks/routines using Shumway. Fosnot, Lempp
* Number concepts to 20: *subitizing, sequencing, comparing, ordering*
 |
| Full Lessons (45 – 60 min/day) | * Build Math community & Growth Mindset (see Van de Walle, Boaler)
* Number concepts to 20
* Likelihood of familiar life events, using comparative language (*throughout the year)*
 |

**Oct-Nov.**

|  |  |
| --- | --- |
| Number Sense Routine (5-10 min/day) | Number concepts to 20: *10 and some more, counting on and back* |
| Full Lessons (45 – 60 min/day) | * Number concepts to 20 *continued*
* Ways to make 10
* Concrete graphs
 |

**Dec-Jan.**

|  |  |
| --- | --- |
| Number Sense Routine (5-10 min/day) | Make 10: *benchmarks of 10 and 20, decomposing 10 into parts* |
| Full Lessons (45 – 60 min/day) | * Addition and subtraction to 20
* Direct measurement with non-standard units
 |

**Feb-March**

|  |  |
| --- | --- |
| Number Sense Routine (5-10 min/day) | Number Concepts: *skip counting by 2 & 5*Addition and subtraction mental math strategies: *counting on, making 10, doubles* |
| Full Lessons (45 – 60 min/day) | * Changes in quantity to 20
* Financial literacy – *coins, counting multiples of the same denomination*
* Equality and inequality *using = and ≠*
 |

**April-May**

|  |  |
| --- | --- |
| Number Sense Routine (5-10 min/day) | Addition and subtraction mental math strategies: *making 10, doubles, decomposing 20 into parts* |
| Full Lessons (45 – 60 min/day) | * Addition and subtraction *revisited*
* Comparison of 2D shapes and 3D objects
 |

**June**

|  |  |
| --- | --- |
| Number Sense Routine (5-10 min/day) | Addition & subtraction are related, review of number sense concepts through number talks |
| Full Lessons (45 – 60 min/day) | * Review of number concepts
* Repeating patterns
 |