Welcome to Math (September 2020) GRADES 1 – 3

Three Main Suggestions for Starting in September:

- 1. Prioritized Learning Standards
- 2. Finding Out What Your Students Know (strength based) diagnostic and formative assessment
- 3. Ways to Support Your Students (Instructional Routines and Open tasks)
 - a. Opportunities for Outdoor Learning
 - b. Adaptations for At Home Learning
 - c. Adaptations for Virtual Learning

1. Prioritize the Learning Standards

All mathematics curricular content and competencies are important and connected, but when having to prioritize learning standards, such as during Covid-19 times, idea of what is essential, foundational or core has emerged. In this time of varied learning, as begin the new school year we need to be mindful of what mathematics learning is essential for students to continue their learning at the next grade level.

The following questions can be considered in prioritizing essential learning standards:

What is new curricular content at the grade level? Look at the grade levels before to see what curricular content is being introduced at the grade level. For examples, fractions, multiplication and division are all new concepts introduced in grade 3.

What curricular content is necessary to review, practice and enhance knowledge of, that is essential for next

GRADE 1

Prioritized Curricular	Essential Curricular	Indicators of	Instructional and
Content	Competencies	Proficiency	Assessment Practices
	Develop mental math	Represent, compare and	Number Talks
Number concepts to 20	strategies	order numbers to 20	contributions during
20	Strategies	order Humbers to 20	number talks and
	Problem solving		discussions
	Troblem solving		uiscussions
Ways to make 10	Explain and justify	Demonstrate	
	mathematical ideas and	understanding of ten	
	decisions	number as ten and ones	Counting Collections
			task-based interviews
	Represent mathematical	Count in various ways (by	including observations
	ideas in concrete, pictorial	1s, 2s, 5s, forwards and	while solving problems,
	and symbolic forms	backwards, counting on	engaging in tasks and
Addition and		from a number)	working with materials
subtraction of	Connect mathematical		
numbers to/within	ideas to each other, other	Compose and decompose	Math Games
20	areas and personal	10 in many ways using	conferring – listening and
	interests	concrete, pictorial and symbolic forms (ie 5+5,	observing
		5+3+2, 6+3+1)	Open Questions
		3+3+2, 0+3+1)	products involving
		Demonstrate	representing mathematical
		understanding of the	ideas with concrete,
		processes of addition and	pictorial and symbolic
		subtraction using	forms
		materials, pictures and	
		numbers/symbols	
		Use more than one	
		strategy to add and	
		subtract (ie. counting all,	
		counting on or back,	
		making and bridging 10, decomposing, using	
		doubles)	
		a dudics)	

GRADE 3

Prioritized	Essential Curricular	Indicators of	Instructional and Assessment
Curricular Content	Competencies	Proficiency	Practices

Place value understanding to 1000

Fluency with +/- facts

Addition and subtraction of two and threedigit numbers

Introduction to multiplication, division and fraction concepts

1. Finding Out What Your Students Know (strength based)

Using Instructional Routines

An instructional routine is a familiar structure with an open-ended task where more time is spent on the learning of mathematics. A good routine provides all students opportunities to do mathematics and gives teachers insight into student thinking. Assessment is built into the routine and allows you identify the students' strengths and level of proficiency. Instructional routines should be intentionally planned to move learning forward in response to where students are in their mathematical thinking.

Considerations:

Decide on 'What to look for' before starting the routine and ways to record the information ~ indicating strengths (e.g. post it notes, check lists)

Create a community atmosphere about sharing thinking and respecting one another.

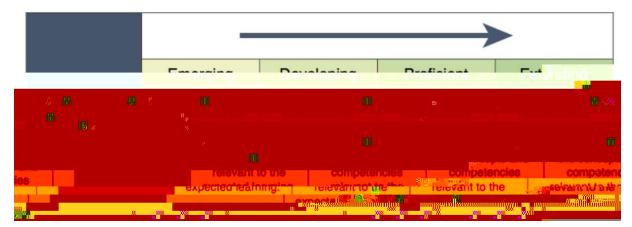
Start with an open-ended prompting question.

Provide for student time to think, share and reflect.

What to Look for by Grade - Indicators of Proficiency

What to Look For... Considering the Proficiency Indicators

What level of proficiency are the students demonstrating?







GRADE 3

You start at 100 and skip count forward by 25s. What is a number you are sure you will not say? How do you know? (e.g. I will not say 248 because I count 200, 225, 250. I will not say 248)

There are 8 hamburger buns ins a package. How would you estimate the number of packages needed to feed