LONG-RANGE PLAN

Grade 2, Mathematics

ORGANIZED BY QUESTIONS

What is a long-range plan and why is it important?

A long-range plan outlines a year-long plan for learning mathematics. It is a living document that is revised as educators become increasingly aware of the abilities, strengths, needs, and interests of their students. A thoughtfully developed long-range plan:

- ensures that instruction is sequenced in a manner that aligns with research about learning mathematics;
- allocates the appropriate time for concepts and skills so that students have multiple opportunities to focus on the overall expectations within the grade;
- ensures that all specific expectations are addressed at least once within the school year; and
- recognizes that some expectations need to be revisited several times throughout the year.

Note: These sample long-range plans outline possible sequences of instruction for the school year. There are many ways to structure an effective plan for learning.

How are these long-range plans structured?

Deep learning occurs when specific expectations are connected, are continuously expanded upon, and are revisited in a variety of contexts throughout the year.

This long-range plan is organized around ten unifying questions. Each question typically involves several strands and draws on big mathematical themes such as quantity, change, equivalence, dimension, pattern, and uncertainty. Often the same question spans several grades.

These ten questions can be sequenced throughout the year as ten blocks of time, as presented here in this long-range plan. Alternatively, the questions could be split into smaller, shorter blocks, with the embedded strands and topics serving as different contexts that would spiral the ten questions throughout the year.

While the long-range plan is presented as month-long blocks, this timing should be held loosely, and adjusted according to the learning readiness of students. The following are other considerations when using this long-range plan.



Considerations

- Sample long-range plans for each grade level include all overall and specific expectations from strands B through F.
- The overall expectation from Strand A (Social-Emotional Learning Skills and the Mathematical Processes) is integrated and taught in connection with the other strands throughout the school year.
- In developing long-range and daily plans, consider opportunities to teach and reinforce social-emotional learning skills and mathematical processes, as well as transferable skills, in order to help students develop confidence, cope with challenges, think critically and creatively, and develop a positive identity as a math learner.
- Mathematical modelling (Algebra, C4) provides opportunities for students to authentically engage in learning with everyday situations that involve mathematics.

 Tasks that require the process of mathematical modelling can be strategically situated throughout the year to support students in making connections among mathematical concepts, strands, and disciplines, and to provide opportunities for assessing the integration and application of learning.
- Coding (Algebra, C3) can be used to solve problems and help deepen students' understanding of mathematical concepts; it should be strategically addressed and assessed throughout the year, as appropriate.
- Some concepts and skills require ongoing attention so that students can develop proficiency and deep, lasting learning. Number Talks, Number Strings, and other math talk prompts can be used at the beginning of math classes to reinforce and strengthen number relationships, spatial relationships, math facts, mental math strategies, and problem-solving skills.

Reflective questions when planning

- What key concepts, models, and strategies do students need more time to develop?
- Does the long-range plan revisit expectations later? If not, how might I adjust the plan so it does? What prior learning is assumed in order for other expectations to be addressed?
- How can I create opportunities for students to continue to practise and consolidate learning when they are engaged in new learning?

Long-Range Plan: Grade 2

• Each month is organized around a unifying question. Strands connected to each question are listed below. The Social-Emotional Learning (SEL) Skills and the Mathematical Processes are to be integrated throughout each of the topics below as appropriate.

	Grade 1	Grade 2	Grade 3
Sep	Who are we? Number, Data, Spatial Sense	Who are we? Number, Data, Spatial Sense	Who are we? Number, Data, Spatial Sense
Oct	How are numbers used in our world? Number, Algebra, Data, Spatial Sense	How much is that? Number, Algebra, Data, Spatial Sense	How much is 1000? Number, Algebra, Data, Spatial Sense
Nov	What comes first? What comes next? Number, Algebra, Data, Spatial Sense	What comes first? What comes next? Number, Algebra, Data, Spatial Sense	What comes first? What comes next? Number, Algebra, Data, Spatial Sense
Dec	Joining and separating: What do we have now? Number, Algebra. Spatial Sense	Joining and separating: What do we have now? Number, Algebra. Spatial Sense	When is addition and subtraction useful? Number, Algebra, Spatial Sense, Financial Literacy
Jan	What shapes are in our world? Number, Algebra, Data, Spatial Sense	How can we describe 2D shapes? Number, Algebra, Data, Spatial Sense	How can we describe 3D objects and space? Data, Spatial Sense
Feb	What is a pattern? Number, Algebra, Spatial Sense	Are they the same? Number, Algebra, Spatial Sense	Are they the same? Number, Algebra, Spatial Sense



Mar	How much is 50? Number, Algebra, Data, Financial Literacy	How much more? Number, Algebra, Data, Spatial Sense, Financial Literacy	How can we describe things that repeat? Number, Algebra, Spatial Sense, Financial Literacy
Apr	What's the difference? Number, Algebra, Data, Spatial Sense, Financial Literacy	What are different ways to get there? Number, Algebra, Data, Spatial Sense, Financial Literacy	What are different ways to get there? Number, Algebra, Data, Spatial Sense, Financial Literacy
May	How can we share things equally? Number, Algebra, Spatial Sense	How can we share things equally? Number, Algebra	How can we share things equally? Number, Algebra, Data
Jun	How much is that? Number, Algebra, Data, Financial Literacy	Equal groups: How much is that? Number, Algebra, Financial Literacy	Equal groups: How much is that? Number, Algebra



September	QUESTION: Who are we?	
	Topics and Expectations	Connecting the Learning
	D: Data collection & organization	Students learn about their class and their
	D1.1 sort sets of data about people or things according to two attributes, using tables and logic diagrams, including	classmates. They ask questions that
	Venn and Carroll diagrams	focus on two pieces of information and
	D1.2 collect data through observations, experiments, and interviews to answer questions of interest that focus on two pieces of information, and organize the data in two-way tally tables	sort, organize, represent, and analyze
	D: Data visualization	the data in ways appropriate for grade 2.
	D1.3 display sets of data, using one-to-one correspondence, in concrete graphs, pictographs, line plots, and bar	They work with numbers to
	graphs with proper sources, titles, and labels	approximately 100 as they count the
	D: Data analysis (mode)	number of people or objects and match
1	D1.4 identify the mode(s), if any, for various data sets presented in concrete graphs, pictographs, line plots, bar	the count of tallies to the amounts in the
	graphs, and tables, and explain what this measure indicates about the data	graph. They identify the mode and use
	D1.5 analyse different sets of data presented in various ways, including in logic diagrams, line plots, and bar graphs, by asking and answering questions about the data and drawing conclusions, then make convincing arguments and	the language of likelihood to make
	informed decisions	predictions about another class. They
	D: Likelihood	test their predictions by surveying
	D2.1 use mathematical language, including the terms "impossible", "possible", and "certain", to describe the	another class. They also create simple
	likelihood of complementary events happening, and use that likelihood to make predictions and informed decisions	maps of their classroom and other places
	D2.2 make and test predictions about the likelihood that the mode(s) of a data set from one population will be the same for data collected from a different population	that are familiar to them. They describe
	B: Amounts to 100	the relative position of several objects in
	B1.1 read, represent, compose, and decompose whole numbers up to and including 200, using a variety of tools	the class and explain how to get from
	and strategies, and describe various ways they are used in everyday life	one object to the next.
	B1.2 compare and order whole numbers up to and including 200, in various contexts	
	B1.4 count to 200, including by 20s, 25s, and 50s, using a variety of tools and strategies	
	E: Maps & movement	
	E1.4 create and interpret simple maps of familiar places	
	E1.5 describe the relative positions of several objects and the movements needed to get from one object to another	
	Number: B1.1; B1.2; B1.4 Data: D1.1; D1.2; D1.3; D1.4; 1.5; D2.1; D2.2 Spatial Sense: E 1.4, E1.5	

Topics and Expectations B: Compose & decompose amounts to 100	Students consider how numbers
·	1
	are used to describe "how
B1.1 read, represent, compose, and decompose whole numbers up to and including 200, using a variety of tools and strategies, and describe various ways they are used in everyday life	much". They continue to
B1.2 compare and order whole numbers up to and including 200, in various contexts	strengthen their subitizing
B1.3 estimate the number of objects in collections of up to 200 and verify their estimates by counting	
B1.4 count to 200, including by 20s, 25s, and 50s, using a variety of tools and strategies	abilities and use number
B1.5 describe what makes a number even or odd	relationships to build their
C: Number relationships	mental addition and subtraction
C1.4 create and describe patterns to illustrate relationships among whole numbers up to 100	strategies and math facts. They
D: Data visualization & analysis	compose and decompose
D1.3 display sets of data, using one-to-one correspondence, in concrete graphs, pictographs, line plots, and bar graphs with proper sources, titles, and labels	amounts to 100 and record their
D1.4 identify the mode(s), if any, for various data sets presented in concrete graphs, pictographs, line plots, bar graphs, and tables, and explain what this measure indicates about the data	findings as number sentences. They analyze sets of data and
D1.5 analyse different sets of data presented in various ways, including in logic diagrams, line plots, and bar graphs, by asking and answering questions about the data and drawing conclusions, then make convincing arguments and informed decisions	graphs and draw conclusions
E: Non-standard units (length)	based on quantities represented
E2.1 choose and use non-standard units appropriately to measure lengths, and describe the inverse relationship between the size of a unit and the number of units needed	by the graphs. They use
B: Math facts (+/-)	numbers and non-standard units
B2.2 recall and demonstrate addition facts for numbers up to 20, and related subtraction facts	to describe how much length an
B2.3 use mental math strategies, including estimation, to add and subtract whole numbers that add up to no more than 50, and explain the strategies used	object has, and move from answering comparison
B2.4 use objects, diagrams, and equations to represent, describe, and solve situations involving addition and subtraction of whole numbers that add up to no more than 100	questions (Which is longer?) to
C: Coding	measurement questions (How long? How much longer?).
C3.1 solve problems and create computational representations of mathematical situations by writing and executing code, including code that involves sequential and concurrent events	Lastly, they write code that
C3.2 read and alter existing code, including code that involves sequential and concurrent events, and describe how changes to the code affect the outcomes	programs a bot to travel a
E: Maps & movement	certain distance, in a certain
E1.4 create and interpret simple maps of familiar places	direction.
E1.5 describe the relative positions of several objects and the movements needed to get from one object to another	
Number: B1.1; B1.2; B1.3; B1.4; B1.5; B2.2; B2.3; B2.4 Algebra: C1.4; C3.1; C3.2 Data: D1.3; D1.4; D1.5 Spatial Sense: E1.4; E1.5; E2.1	

November	Question: What comes first? What comes next?		
	Topics and Expectations	Connecting the Learning	
	C: Spatial patterns & rules	Students explain how things are	
	C1.1 identify and describe a variety of patterns involving geometric designs, including patterns found in real-life contexts	ordered and sequenced. They	
	C1.2 create and translate patterns using various representations, including shapes and numbers	describe patterns in geometric	
	C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns represented with shapes and numbers	designs and explain "what	
	C: Code concurrent & sequential events	comes next" based on pattern	
	C3.1 solve problems and create computational representations of mathematical situations by writing and executing code, including	rules. They look at number	
	code that involves sequential and concurrent events	sequences to 200, and use place	
	C3.2 read and alter existing code, including code that involves sequential and concurrent events, and describe how changes to the code affect the outcomes	value and other patterns to	
	E: Order by length (distance)	order numbers. They put code	
	E2.1 choose and use non-standard units appropriately to measure lengths, and describe the inverse relationship between the size	in the right order so as to reach	
	of a unit and the number of units needed	a desired destination or result.	
	E: Order by duration (time)	They compare objects by their	
	E2.4 use units of time, including seconds, minutes, hours, and nonstandard units, to describe the duration of various events	measuring lengths, and order	
	B: Number sequences to 200	events by duration, as they	
	B1.2 compare and order whole numbers up to and including 200, in various contexts	engage in simple tasks and	
	B1.3 estimate the number of objects in collections of up to 200 and verify their estimates by counting	contests that can be timed (e.g.,	
	B1.4 count to 200, including by 20s, 25s, and 50s, using a variety of tools and strategies	, ,	
	C: Number relationships	the amount of time it takes for	
	C1.4 create and describe patterns to illustrate relationships among whole numbers up to 100	an object to roll a given distance	
	D: Data analysis	along a ramp at different	
	D1.3 display sets of data, using one-to-one correspondence, in concrete graphs, pictographs, line plots, and bar graphs with proper sources, titles, and labels	heights). They present the data in tables and graphs. Based on	
	D1.4 identify the mode(s), if any, for various data sets presented in concrete graphs, pictographs, line plots, bar graphs, and tables, and explain what this measure indicates about the data	results of these tasks and	
	D1.5 analyse different sets of data presented in various ways, including in logic diagrams, line plots, and bar graphs, by asking and answering questions about the data and drawing conclusions, then make convincing arguments and informed decisions	contests, they predict the likely	
	D: Likelihood	order of future events.	
	D2.1 use mathematical language, including the terms "impossible", "possible", and "certain", to describe the likelihood of complementary events happening, and use that likelihood to make predictions and informed decisions		
	D2.2 make and test predictions about the likelihood that the mode(s) of a data set from one population will be the same for data collected from a different population		
	Number: B1.2; 1.3; B1.4 Algebra: C1.1; C1.2; C1.3; C1.4; C3.1; C3.2 Data: D1.3; D1.4; D:1.5; D2.1; D2.2 Spatial Sense: E2.1; E2.4		



December	QUESTION: Joining and separating: What do we have now?	
	Topics and Expectations	Connecting the Learning
	B: Change situations (+/-) and Part-whole situations (+/-) B1.1 read, represent, compose, and decompose whole numbers up to and including 200, using a variety of tools and strategies, and describe various ways they are used in everyday life B2.1 use the properties of addition and subtraction, and the relationships between addition and multiplication and between subtraction and division, to solve problems and check calculations B2.4 use objects, diagrams, and equations to represent, describe, and solve situations involving addition and subtraction of whole numbers that add up to no more than 100 B: Mental math to 50 B2.3 use mental math strategies, including estimation, to add and subtract whole numbers that add up to no more than 50, and explain the strategies used B: Math facts to 20 B2.2 recall and demonstrate addition facts for numbers up to 20, and related subtraction facts C: Symbols as variables C2.1 identify when symbols are being used as variables, and describe how they are being used C: Equivalence (+/-) C2.2 determine what needs to be added to or subtracted from addition and subtraction expressions to make them equivalent C2.3 identify and use equivalent relationships for whole numbers up to 100, in various context E: Compose-decompose area E1.2 compose and decompose two-dimensional shapes, and show that the area of a shape remains constant regardless of how its parts are rearranged Number: B1.1; B2.1; B2.2; B2.3; B2.4 Algebra: C2.1; C2.2; C2.3 Spatial Sense: E1.2	Students describe what happens when things are joined, separated, and combined. They represent these problem types with part-whole models, and use direct modeling, counting strategies, their math facts and mental math strategies to solve for unknown quantities. They represent their thinking with number sentences and use symbols to show variables. They also join, separate and combine 2D areas (compose and decompose) and demonstrate that the area of a shape remains constant regardless of how the parts are arranged.
	C4: Integrated Modelling Task	



E1.1 sort and identify two-dimensional shapes by comparing number of sides, side lengths, angles, and number of lines of symmetry E1.2 compose and decompose two-dimensional shapes, and show that the area of a shape remains constant regardless of how its parts are rearranged E1.3 identify congruent lengths and angles in two-dimensional shapes by mentally and physically matching them, and determine if the shapes are congruent E: Measure & draw lengths E2.1 choose and use non-standard units appropriately to measure lengths, and describe the inverse relationship between the size of a unit and the number of units needed E2.2 explain the relationship between centimetres and metres as units of length, and use benchmarks for these units to estimate lengths E2.3 measure and draw lengths in centimetres and metres, using a measuring tool, and recognize the impact of starting at points other than zero D: Venn & Carroll diagrams D1.1 sort sets of data about people or things according to two attributes, using tables and logic diagrams, including Venn and Carroll diagrams B1.Fractions of shapes (part-whole) B1.6 use drawings to represent, solve, and compare the results of fair-share problems that involve sharing up to 10 items among 2, 3, 4, and 6 sharers, including problems that result in whole numbers, mixed numbers, and fractional amounts B1.7 recognize that one third and two sixths of the same whole are equal, in fair-sharing contexts C: Patterns with shapes C1.1 identify and describe a variety of patterns involving geometric designs, including patterns found in real-life contexts C: Coding to make shapes C1.2 create and translate patterns using various representations, including shapes and numbers Number: B1.6; B1.7 Algebra: C1.1; C1.2; C1.3	ting the Learning
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D: Venn & Carroll diagrams D1.1 sort sets of data about people or things according to two attributes, using tables and logic diagrams, including Venn and Carroll diagrams B: Fractions of shapes (part-whole) B1.6 use drawings to represent, solve, and compare the results of fair-share problems that involve sharing up to 10 items among 2, 3, 4, and 6 sharers, including problems that result in whole numbers, mixed numbers, and fractional amounts B1.7 recognize that one third and two sixths of the same whole are equal, in fair-sharing contexts C: Patterns with shapes C1.1 identify and describe a variety of patterns involving geometric designs, including patterns found in real-life contexts C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns represented with shapes and numbers C: Coding to make shapes C1.2 create and translate patterns using various representations, including shapes and numbers Number: B1.6; B1.7 Algebra: C1.1; C1.2; C1.3	nt the repetition and
D1.1 sort sets of data about people or things according to two attributes, using tables and logic diagrams, including Venn and Carroll diagrams B: Fractions of shapes (part-whole) B1.6 use drawings to represent, solve, and compare the results of fair-share problems that involve sharing up to 10 items among 2, 3, 4, and 6 sharers, including problems that result in whole numbers, mixed numbers, and fractional amounts B1.7 recognize that one third and two sixths of the same whole are equal, in fair-sharing contexts C: Patterns with shapes C1.1 identify and describe a variety of patterns involving geometric designs, including patterns found in real-life contexts C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns represented with shapes and numbers C: Coding to make shapes C1.2 create and translate patterns using various representations, including shapes and numbers Number: B1.6; B1.7 Algebra: C1.1; C1.2; C1.3 tools, to various I shapes and logic diagrams, including Venn various I shapes and space and shapes and fractional amounts create space and fractional amounts create space are spaced on the attrice composed areas of recognized areas	f units. They use rulers,
and Carroll diagrams B: Fractions of shapes (part-whole) B1.6 use drawings to represent, solve, and compare the results of fair-share problems that involve sharing up to 10 items among 2, 3, 4, and 6 sharers, including problems that result in whole numbers, mixed numbers, and fractional amounts B1.7 recognize that one third and two sixths of the same whole are equal, in fair-sharing contexts C: Patterns with shapes C1.1 identify and describe a variety of patterns involving geometric designs, including patterns found in real-life contexts C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns represented with shapes and numbers C: Coding to make shapes C1.2 create and translate patterns using various representations, including shapes and numbers Number: B1.6; B1.7 Algebra: C1.1; C1.2; C1.3 various I shapes 2D shape create specified in fair-sharing contexts the attrictompose areas of recognizations, and identify missing areas of recognizations. The patterns of the	as other strategies and
B: Fractions of shapes (part-whole) B1.6 use drawings to represent, solve, and compare the results of fair-share problems that involve sharing up to 10 items among 2, 3, 4, and 6 sharers, including problems that result in whole numbers, mixed numbers, and fractional amounts B1.7 recognize that one third and two sixths of the same whole are equal, in fair-sharing contexts C: Patterns with shapes C1.1 identify and describe a variety of patterns involving geometric designs, including patterns found in real-life contexts C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns represented with shapes and numbers C: Coding to make shapes C1.2 create and translate patterns using various representations, including shapes and numbers Number: B1.6; B1.7 Algebra: C1.1; C1.2; C1.3	measure and draw
B1.6 use drawings to represent, solve, and compare the results of fair-share problems that involve sharing up to 10 items among 2, 3, 4, and 6 sharers, including problems that result in whole numbers, mixed numbers, and fractional amounts B1.7 recognize that one third and two sixths of the same whole are equal, in fair-sharing contexts C: Patterns with shapes C1.1 identify and describe a variety of patterns involving geometric designs, including patterns found in real-life contexts C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns represented with shapes and numbers C: Coding to make shapes C1.2 create and translate patterns using various representations, including shapes and numbers Number: B1.6; B1.7 Algebra: C1.1; C1.2; C1.3	lengths, distances, and
among 2, 3, 4, and 6 sharers, including problems that result in whole numbers, mixed numbers, and fractional amounts B1.7 recognize that one third and two sixths of the same whole are equal, in fair-sharing contexts C: Patterns with shapes C1.1 identify and describe a variety of patterns involving geometric designs, including patterns found in real-life contexts C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns represented with shapes and numbers C: Coding to make shapes C1.2 create and translate patterns using various representations, including shapes and numbers Number: B1.6; B1.7 Algebra: C1.1; C1.2; C1.3	Students also construct
B1.7 recognize that one third and two sixths of the same whole are equal, in fair-sharing contexts C: Patterns with shapes C1.1 identify and describe a variety of patterns involving geometric designs, including patterns found in real-life contexts C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns represented with shapes and numbers C: Coding to make shapes C1.2 create and translate patterns using various representations, including shapes and numbers Number: B1.6; B1.7 Algebra: C1.1; C1.2; C1.3	es using code, and
C1.1 identify and describe a variety of patterns involving geometric designs, including patterns found in real-life contexts C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns represented with shapes and numbers C: Coding to make shapes C1.2 create and translate patterns using various representations, including shapes and numbers Number: B1.6; B1.7 Algebra: C1.1; C1.2; C1.3 Compose areas of recogniz there are half of a continue smaller of a smaller	patial patterns based on
C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns represented with shapes and numbers C: Coding to make shapes C1.2 create and translate patterns using various representations, including shapes and numbers Number: B1.6; B1.7 Algebra: C1.1; C1.2; C1.3	ibutes of shapes. They
elements in patterns represented with shapes and numbers C: Coding to make shapes C1.2 create and translate patterns using various representations, including shapes and numbers Number: B1.6; B1.7 Algebra: C1.1; C1.2; C1.3 recogniz	e and decompose the
C: Coding to make shapes C1.2 create and translate patterns using various representations, including shapes and numbers half of a Continue Algebra: C1.1; C1.2; C1.3	² D shapes and
C1.2 create and translate patterns using various representations, including shapes and numbers Number: B1.6; B1.7 Continue	ze, for example, that
Number: B1.6; B1.7 Algebra: C1.1; C1.2; C1.3 Smaller of	e many ways to show a
Algebra: C1.1; C1.2; C1.3 smaller of	rectangle. They
	e to split 2D shapes into
Data: D1.1 fractions	equal parts and use
Spatial Sense: E1.1; E1.2; E1.3; E2.1; E2.2; E2.3	s to describe the
resulting	g shapes.

ıary	QUESTION: Are they the same?	
	Topics and Expectations	Connecting the Learning
	C: Pattern types & rules	Students determine if quantities, shapes
	C1.1 identify and describe a variety of patterns involving geometric designs, including patterns found in real-life contexts	patterns, and movements are the same.
	C1.4 create and describe patterns to illustrate relationships among whole numbers up to 100	They decide if patterns, translated into
	C: Translate & represent patterns	different forms, represent the same
	C1.2 create and translate patterns using various representations, including shapes and numbers	pattern rule. They measure lengths and
	C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns represented with shapes and numbers	match angles to identify congruent elements in 2D shapes and determine if
	E: Congruency	,
	E1.3 identify congruent lengths and angles in two-dimensional shapes by mentally and physically matching them, and determine if the shapes are congruent	the shapes themselves are congruent. They compare lengths measured in
	E: Different units of length, including centimetres & metres	centimetres, metres, or familiar non-
	E2.1 choose and use non-standard units appropriately to measure lengths, and describe the inverse relationship between the size of a unit and	standard units, and decide if the lengths
	the number of units needed	are the same even though the number of
	E2.2 explain the relationship between centimetres and metres as units of length, and use benchmarks for these units to estimate lengths	units may differ.
	E2.3 measure and draw lengths in centimetres and metres, using a measuring tool, and recognize the impact of starting at points other than zero	
	E: Conservation of area	They examine silhouettes of
	E1.2 compose and decompose two-dimensional shapes, and show that the area of a shape remains constant regardless of how its parts are rearranged	shapes that have been
	C: Equivalent relationships	rearranged to form other
	C2.1 identify when symbols are being used as variables, and describe how they are being used	shapes, and determine if the
	C2.2 determine what needs to be added to or subtracted from addition and subtraction expressions to make them equivalent	areas are the same. They look at
	C2.3 identify and use equivalent relationships for whole numbers up to 100, in various contexts	both sides of an equal sign to
	C: Coding events	determine if they represent the
	C3.1 solve problems and create computational representations of mathematical situations by writing and executing code, including code that involves sequential and concurrent events	same amount. They examine
	C3.2 read and alter existing code, including code that involves sequential and concurrent events, and describe how changes to the code affect the outcomes	two sets of code and predict whether they both lead to the
	B: Fractions as equal parts & equal shares	same destination or result. And
	B1.1 read, represent, compose, and decompose whole numbers up to and including 200, using a variety of tools and strategies, and describe various ways they are used in everyday life	they look at different ways of
	B1.3 estimate the number of objects in collections of up to 200 and verify their estimates by counting	representing fractions, both as
	B1.7 recognize that one third and two sixths of the same whole are equal, in fair-sharing contexts	equal parts of a whole and as
	B: Equivalent fractions	equal shares, and notice that
	B1.6 use drawings to represent, solve, and compare the results of fair-share problems that involve sharing up to 10 items among 2, 3, 4, and 6	the same fraction can represent
	sharers, including problems that result in whole numbers, mixed numbers, and fractional amounts	different situations. In doing so,
	Number: B1.1; B1.3; B1.6; B1.7	they also notice that the same
	Algebra: C1.1; C1.2; C1.3; C1.4; C2.1; C2.2; C2.3; C3.1; C3.2	quantity can be described by
	Spatial Sense: E1.2; E1.3; E2.1; E2.2; E2.3	different but equivalent
		fractions.



March		
	Topics and Expectations	Connecting the Learning
	B: Compare situations (+/-)	Students answer the question "How
	B1.1 read, represent, compose, and decompose whole numbers up to and including 200, using a variety of tools and strategies, and describe	much more?" as they consider
	various ways they are used in everyday life	comparison situations where the
	B1.2 compare and order whole numbers up to and including 200, in various context	difference, the larger amount, or the
	B1.3 estimate the number of objects in collections of up to 200 and verify their estimates by counting	smaller amount is unknown, including
	B1.4 count to 200, including by 20s, 25s, and 50s, using a variety of tools and strategies B2.1 use the properties of addition and subtraction, and the relationships between addition and multiplication and between subtraction and	situations that involve money. They
	division, to solve problems and check calculations	determine what amount is needed to
	B2.2 recall and demonstrate addition facts for numbers up to 20, and related subtraction facts	equalize and balance expressions.
	B2.4 use objects, diagrams, and equations to represent, describe, and solve situations involving addition and subtraction of whole numbers that add up to no more than 100	They measure and compare times an
	C: Equalize expressions	length measurements and use the
	C1.4 create and describe patterns to illustrate relationships among whole numbers up to 100	count of units to describe how much
	C2.1 identify when symbols are being used as variables, and describe how they are being used	more. They look at graphs and tally
	C2.2 determine what needs to be added to or subtracted from addition and subtraction expressions to make them equivalent	charts and determine how much
	C2.3 identify and use equivalent relationships for whole numbers up to 100, in various contexts	more frequently one response occurs
	E: Measure length (cm, m)	than another. As they compare two
	E2.2 explain the relationship between centimetres and metres as units of length, and use benchmarks for these units to estimate lengths	amounts, they recognize that one
	E2.3 measure and draw lengths in centimetres and metres, using a measuring tool, and recognize the impact of starting at points other than zero	amount and its complement create a
	E: Measure duration (time)	whole. In all these contexts, they
	E2.4 use units of time, including seconds, minutes, hours, and nonstandard units, to describe the duration of various events	explain how addition and subtraction
	B: Mental math to 50	can be used to describe, represent
	B2.3 use mental math strategies, including estimation, to add and subtract whole numbers that add up to no more than 50, and explain the strategies used	and answer the question how much
	F: Coins & bills to 200	more.
	F1.1 identify different ways of representing the same amount of money up to Canadian 200¢ using various combinations of coins, and up to \$200 using various combinations of \$1 and \$2 coins and \$5, \$10, \$20, \$50, and \$100 bills	
	D: Data analysis (frequency)	
	D1.3 display sets of data, using one-to-one correspondence, in concrete graphs, pictographs, line plots, and bar graphs with proper sources, titles, and labels	
	D1.4 identify the mode(s), if any, for various data sets presented in concrete graphs, pictographs, line plots, bar graphs, and tables, and explain what this measure indicates about the data	
	D1.5 analyse different sets of data presented in various ways, including in logic diagrams, line plots, and bar graphs, by asking and answering questions about the data and drawing conclusions, then make convincing arguments and informed decisions	
	D: Likelihood (complement)	
	D2.1 use mathematical language, including the terms "impossible", "possible", and "certain", to describe the likelihood of complementary events happening, and use that likelihood to make predictions and informed decisions	
	Number: B1.1; B1.2; B1.3; B1.4; B2.1; B2.2; B2.3; B2.4; Algebra: C1.4; C2.1; C2.2; C2.3 Data: D1.3: D1.4; D1.5; D2.1 Spatial Sense: E2.2; E2.3; E2.4 Financial Literacy: F1.1	

Topics and Expectations	Connecting the Learning
E: Maps & movement	Students use and describe
E1.4 create and interpret simple maps of familiar places	different strategies and paths
E1.5 describe the relative positions of several objects and the movements needed to get from one object to another	to arrive at a common
E: Compare distances	destination, whether that be
E2.3 measure and draw lengths in centimetres and metres, using a measuring tool, and recognize the impact of starting at points other than zero	spatial or numerical. They
E: Compare times	create maps of different areas
E2.4 use units of time, including seconds, minutes, hours, and nonstandard units, to describe the duration of various event	and describe, measure, and
B: Estimation & counting strategies	compare routes to arrive at a
B1.1 read, represent, compose, and decompose whole numbers up to and including 200, using a variety of tools and strategies, and describe	common destination. They do
various ways they are used in everyday life	similar things as they create
B1.3 estimate the number of objects in collections of up to 200 and verify their estimates by counting	concurrent code and
B1.4 count to 200, including by 20s, 25s, and 50s, using a variety of tools and strategies	determine which is the most
B: Compose & decompose numbers to 200	efficient path. They measure
B2.1 use the properties of addition and subtraction, and the relationships between addition and multiplication and between subtraction and division, to solve problems and check calculations	and compare the time it takes
B2.2 recall and demonstrate addition facts for numbers up to 20, and related subtraction facts	to do a task using different
B2.4 use objects, diagrams, and equations to represent, describe, and solve situations involving addition and subtraction of whole numbers that add up to no more than 100	approaches, and use logic
B: Mental Math to 50	diagrams and flowcharts to
B2.3 use mental math strategies, including estimation, to add and subtract whole numbers that add up to no more than 50, and explain the strategies used	describe sequences. They also compare different ways to get
F: Money amounts to 200	to a numerical calculation, or
F1.1 identify different ways of representing the same amount of money up to Canadian 200¢ using various combinations of coins, and up to \$200 using various combinations of \$1 and \$2 coins and \$5, \$10, \$20, \$50, and \$100 bills	ways that an amount might
C: Coding routes	be composed or decomposed.
C2.1 identify when symbols are being used as variables, and describe how they are being used	They model number
C2.2 determine what needs to be added to or subtracted from addition and subtraction expressions to make them equivalent	relationships with number
C2.3 identify and use equivalent relationships for whole numbers up to 100, in various context	lines, describe and compare
C3.1 solve problems and create computational representations of mathematical situations by writing and executing code, including code that involves sequential and concurrent events	mental math strategies, and
C3.2 read and alter existing code, including code that involves sequential and concurrent events, and describe how changes to the code affect the outcomes	apply their math facts.
D: Logic diagrams (flowchart)	
D1.1 sort sets of data about people or things according to two attributes, using tables and logic diagrams, including Venn and Carroll diagrams	
Number: B1.1; B1.3; B1.4; B2.1; B2.2; B2.3; B2.4 Algebra: C2.1; C2.2; C2.3; C3.1; C3.2 Data: D1.1 Spatial Sense: E1.4; E1.5; E2.3; E2.4	

E B a a E B s C C C C	B: Fractions B1.6 use drawings to represent, solve, and compare the results of fair-share problems that involve sharing up to 10 items among 2, 3, 4, and 6 sharers, including problems that result in whole numbers, mixed numbers, and fractional amounts B1.7 recognize that one third and two sixths of the same whole are equal, in fair-sharing context B: Partitive division B2.6 represent division of up to 12 items as the equal sharing of a quantity, and solve related problems, using various tools and drawings B: Relationships among the operations B2.1 use the properties of addition and subtraction, and the relationships between addition and multiplication and between subtraction and division, to solve problems and check calculations C: Equivalent expressions C2.2 determine what needs to be added to or subtracted from addition and subtraction expressions to make them equivalent Number: B1.6; B1.7; B2.1; B2.6 Algebra: C2.2	Students engage in situations where they must share amounts equally. They share amounts where the portions are whole number amounts, where the portions are fractional amounts, and where the portions are amounts greater than 1. They share their drawings and strategies, and use a combination of words and numbers to describe the fractional size of the portion. They compare two different equal sharing situations, and recognize that if the amount
B B B B S C C	B1.6 use drawings to represent, solve, and compare the results of fair-share problems that involve sharing up to 10 items among 2, 3, 4, and 6 sharers, including problems that result in whole numbers, mixed numbers, and fractional amounts B1.7 recognize that one third and two sixths of the same whole are equal, in fair-sharing context B: Partitive division B2.6 represent division of up to 12 items as the equal sharing of a quantity, and solve related problems, using various tools and drawings B: Relationships among the operations B2.1 use the properties of addition and subtraction, and the relationships between addition and multiplication and between subtraction and division, to solve problems and check calculations C: Equivalent expressions C2.2 determine what needs to be added to or subtracted from addition and subtraction expressions to make them equivalent Number: B1.6; B1.7; B2.1; B2.6	where they must share amounts equally. They share amounts where the portions are whole number amounts, where the portions are fractional amounts, and where the portions are amounts greater than 1. They share their drawings and strategies, and use a combination of words and numbers to describe the fractional size of the portion. They compare two different equal sharing situations, and
a B B a B S C C	among 2, 3, 4, and 6 sharers, including problems that result in whole numbers, mixed numbers, and fractional amounts B1.7 recognize that one third and two sixths of the same whole are equal, in fair-sharing context B: Partitive division B2.6 represent division of up to 12 items as the equal sharing of a quantity, and solve related problems, using various tools and drawings B: Relationships among the operations B2.1 use the properties of addition and subtraction, and the relationships between addition and multiplication and between subtraction and division, to solve problems and check calculations C: Equivalent expressions C2.2 determine what needs to be added to or subtracted from addition and subtraction expressions to make them equivalent Number: B1.6; B1.7; B2.1; B2.6	amounts equally. They share amounts where the portions are whole number amounts, where the portions are fractional amounts, and where the portions are amounts greater than 1. They share their drawings and strategies, and use a combination of words and numbers to describe the fractional size of the portion. They compare two different equal sharing situations, and
E B B S C C	B: Partitive division B2.6 represent division of up to 12 items as the equal sharing of a quantity, and solve related problems, using various tools and drawings B: Relationships among the operations B2.1 use the properties of addition and subtraction, and the relationships between addition and multiplication and between subtraction and division, to solve problems and check calculations C: Equivalent expressions C2.2 determine what needs to be added to or subtracted from addition and subtraction expressions to make them equivalent	amounts where the portions are whole number amounts, where the portions are fractional amounts, and where the portions are amounts greater than 1. They share their drawings and strategies, and use a combination of words and numbers to describe the fractional size of the portion. They compare two different equal sharing situations, and
B B S C C	B2.6 represent division of up to 12 items as the equal sharing of a quantity, and solve related problems, using various tools and drawings B: Relationships among the operations B2.1 use the properties of addition and subtraction, and the relationships between addition and multiplication and between subtraction and division, to solve problems and check calculations C: Equivalent expressions C2.2 determine what needs to be added to or subtracted from addition and subtraction expressions to make them equivalent Number: B1.6; B1.7; B2.1; B2.6	are whole number amounts, where the portions are fractional amounts, and where the portions are amounts greater than 1. They share their drawings and strategies, and use a combination of words and numbers to describe the fractional size of the portion. They compare two different equal sharing situations, and
a E B S C C	and drawings B: Relationships among the operations B2.1 use the properties of addition and subtraction, and the relationships between addition and multiplication and between subtraction and division, to solve problems and check calculations C: Equivalent expressions C2.2 determine what needs to be added to or subtracted from addition and subtraction expressions to make them equivalent Number: B1.6; B1.7; B2.1; B2.6	where the portions are fractional amounts, and where the portions are amounts greater than 1. They share their drawings and strategies, and use a combination of words and numbers to describe the fractional size of the portion. They compare two different equal sharing situations, and
B S C C C C	B2.1 use the properties of addition and subtraction, and the relationships between addition and multiplication and between subtraction and division, to solve problems and check calculations C: Equivalent expressions C2.2 determine what needs to be added to or subtracted from addition and subtraction expressions to make them equivalent Number: B1.6; B1.7; B2.1; B2.6	where the portions are amounts greater than 1. They share their drawings and strategies, and use a combination of words and numbers to describe the fractional size of the portion. They compare two different equal sharing situations, and
B S C C C C	B2.1 use the properties of addition and subtraction, and the relationships between addition and multiplication and between subtraction and division, to solve problems and check calculations C: Equivalent expressions C2.2 determine what needs to be added to or subtracted from addition and subtraction expressions to make them equivalent Number: B1.6; B1.7; B2.1; B2.6	amounts greater than 1. They share their drawings and strategies, and use a combination of words and numbers to describe the fractional size of the portion. They compare two different equal sharing situations, and
s (C	subtraction and division, to solve problems and check calculations C: Equivalent expressions C2.2 determine what needs to be added to or subtracted from addition and subtraction expressions to make them equivalent Number: B1.6; B1.7; B2.1; B2.6	share their drawings and strategies, and use a combination of words and numbers to describe the fractional size of the portion. They compare two different equal sharing situations, and
C	C2.2 determine what needs to be added to or subtracted from addition and subtraction expressions to make them equivalent Number: B1.6; B1.7; B2.1; B2.6	strategies, and use a combination of words and numbers to describe the fractional size of the portion. They compare two different equal sharing situations, and
_ N	Number: B1.6; B1.7; B2.1; B2.6	combination of words and numbers to describe the fractional size of the portion. They compare two different equal sharing situations, and
		numbers to describe the fractional size of the portion. They compare two different equal sharing situations, and
		fractional size of the portion. They compare two different equal sharing situations, and
		They compare two different equal sharing situations, and
		equal sharing situations, and
		=
		recognize that if the amount
		_
		to be shared is the same, the
		number of sharers
		determines who gets more,
		and if the number of sharers
		is the same, the amount to be
		shared is the deciding factor.
		They represent their
		strategies with drawings and
		addition and subtraction
		number sentences. They
		come to see that the
		operation of division can also
		be used to describe the
		sharing of an amount equally.

June	QUESTION: Equal groups: How much is that?	
	Topics and Expectations	Connecting the Learning
	B: Skip count	Students work with equal groups
	B1.1 read, represent, compose, and decompose whole numbers up to and including 200, using a variety of tools and	and use skip counting to
	strategies, and describe various ways they are used in everyday life	determine the total. They come
	B1.4 count to 200, including by 20s, 25s, and 50s, using a variety of tools and strategies	to see that numbers that can be
	B: Even & odd numbers	split into equal whole number
	B1.5 describe what makes a number even or odd	groups are called even and ones
	B: Multiplication	that cannot are called odd. They
	B2.1 use the properties of addition and subtraction, and the relationships between addition and multiplication and between subtraction and division, to solve problems and check calculations	represent and solve problems
	B: Quotative division	involving repeated groups,
	B2.5 represent multiplication as repeated equal groups, including groups of one half and one fourth, and solve related	including those with fractional
	problems, using various tools and drawings	amounts, and learn that
	F: Coins & bills to 50	multiplication can be used to
	F1.1 identify different ways of representing the same amount of money up to Canadian 200¢ using various combinations	represent the total product.
	of coins, and up to \$200 using various combinations of \$1 and \$2 coins and \$5, \$10, \$20, \$50, and \$100 bills	Likewise, they represent and
	C: Equivalent expressions	solve problems where they must
	C2.2 determine what needs to be added to or subtracted from addition and subtraction expressions to make them	split amounts into equal groups,
	equivalent	and find out how many are in
	Number: B1.1; B1.4; B1.5; B2.1; B2.5	each group. They come to see
	Algebra: C2.2	that division can also represent
	Financial Literacy: F1.1	grouping situations as well as
		sharing situations. They show
		how the same equal group
		situation can be modeled using
		addition, subtraction,
		multiplication, and division.