Time period	Standard	Resources (unit in textbook, learning center, recurring activity, other)	Internet/Media/ other resource
Week ___ to ___	(0) Fact Fluency: Student is expected to perform single digit addition, subtraction, multiplication, and division with speed and accuracy.	For the first 2 months of school, do mixed math fact quiz every day. Other: flash cards, math fact games. See resources:	
Week ___ to ___	(1) Number, operation, and quantitative reasoning. The student uses place value to represent whole numbers and decimals. The student is expected to:		
	(A) use place value to read, write, compare, and order whole numbers through the 999,999,999,999.	*Mathematics Course 1:* Lesson 1-1	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(B) use place value to read, write, compare, and order decimals through the thousandths place.	*Mathematics Course 1:* Lesson 1-5 Activity Lab 1-5a Lesson 1-6	Each section contains interactive online activities. Visit phschool.com and enter the code.
Week ___ to ___	(2) Number, operation, and quantitative reasoning. The student uses fractions in problem-solving situations. The student is expected to:		
	(A) generate a fraction equivalent to a given fraction such as 1/2 and 3/6 or 4/12 and 1/3;	*Mathematics Course 1:* Lesson 4-5	Each section contains interactive online activities. Visit phschool.com and

			enter the code.
	(B) generate a mixed number equivalent to a given improper fraction or generate an improper fraction equivalent to a given mixed number;	*Mathematics Course 1:* Lesson 4-6	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(C) compare two fractional quantities in problem-solving situations using a variety of methods, including common denominators; and	*Mathematics Course 1:* Lesson 4-4 Lesson 4-8	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(D) use models to relate decimals to fractions that name tenths, hundredths, and thousandths.	*Mathematics Course 1:* Lesson 4-9	Each section contains interactive online activities. Visit phschool.com and enter the code.
Week ___ to ___	(3) Number, operation, and quantitative reasoning. The student adds, subtracts, multiplies, and divides to solve meaningful problems. The student is expected to:		
	(A) use addition and subtraction to solve problems involving whole numbers and decimals;	*Mathematics Course 1:* Lesson 1-1, 1-2, 1-4, 1-7	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(B) use multiplication to solve problems involving whole numbers (no more than three digits times two digits without technology);	*Mathematics Course 1:* Lesson 1-2, 1-8,	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(C) use division to solve problems involving whole numbers (no more than	Mathematics course	Each section contains interactive online

	two-digit divisors and three-digit dividends without technology), including interpreting the remainder within a given context;	Lesson 1-2, 1-9, 4-1	activities. Visit phschool.com and enter the code.
	(E) identify factors of a positive integer, common factors, and the greatest common factor of a set of positive integers; and	*Mathematics Course 1:* Lesson 4-3, 4-4	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(F) identify multiples of a positive integer and common multiples and the least common multiple of a set of positive integers.	*Mathematics Course 1:* Lesson 4-7	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(E) model situations using addition and/or subtraction involving fractions with like **and** unlike denominators using concrete objects, pictures, words, and numbers.	*Mathematics Course 1:* Lesson 5-2, 5-3	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(B) use addition and subtraction to solve problems involving fractions and decimals;	*Mathematics Course 1:* Lesson 4-9	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(E) use order of operations to simplify whole number expressions (without exponents) in problem solving situations.	*Mathematics Course 1:* Lesson 1-4	Each section contains interactive online activities. Visit phschool.com and enter the code.
Week ___ to ___	(4) Number, operation, and quantitative reasoning. The student estimates to determine reasonable results. The student is expected to use	*Mathematics Course 1:* Lesson 3-5, 3-6, 3-7	Each section contains interactive online activities. Visit phschool.com and

	strategies, including rounding and compatible numbers to estimate solutions to addition, subtraction, multiplication, and division problems.		enter the code.
Week ___ to ___	(5) Patterns, relationships, and algebraic thinking. The student makes generalizations based on observed patterns and relationships. The student is expected to:	*Mathematics Course 1:* Lesson 3-1	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(A) describe the relationship between sets of data in graphic organizers such as lists, tables, charts, and diagrams; and	*Mathematics Course 1:* Lesson 2-4, 2-5, 2-6, 2-7	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(B) identify prime and composite numbers using concrete objects, pictorial models, and patterns in factor pairs.	*Mathematics Course 1:* Lesson 4-3	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(D) write prime factorizations using exponents;	*Mathematics Course 1:* Lesson 4-3, 4-2	Each section contains interactive online activities. Visit phschool.com and enter the code.
Week ___ to ___	(4) Patterns, relationships, and algebraic thinking. The student uses letters as variables in mathematical expressions to describe how one quantity changes when a related quantity changes. The student is expected to:	*Mathematics Course 1:* Lesson 3-2	Each section contains interactive online activities. Visit phschool.com and enter the code.

	(A) use tables and symbols to represent and describe proportional and other relationships such as those involving conversions, arithmetic sequences (with a constant rate of change), perimeter and area; and	*Mathematics Course 1:* Lesson 9-3	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(B) use tables of data to generate formulas representing relationships involving perimeter, area, volume of a rectangular prism, etc.	*Mathematics Course 1:* Lesson 9-8*, 9-9, 9-10*	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(6) Patterns, relationships, and algebraic thinking. The student describes relationships mathematically.		
	The student is expected to select from and use diagrams and equations such as y = 5 + 3 to represent meaningful problem situations.	*Mathematics Course 1:* Lesson 3-2, 3-3	Each section contains interactive online activities. Visit phschool.com and enter the code.
	The student uses letters to represent an unknown in an equation. The student is expected to formulate equations from problem situations described by linear relationships.	*Mathematics Course 1:* Lesson 3-2, 3-3	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(7) Geometry and spatial reasoning. The student generates geometric definitions using critical attributes. The student is expected to identify essential attributes including parallel, perpendicular, and congruent parts of two-	*Mathe-matics Course 1:* Lesson 8-2	Each section contains interactive online activities. Visit phschool.com and enter the code.

	and three-dimensional geometric figures.		
Week ___ to ___	(6) Geometry and spatial reasoning. The student uses geometric vocabulary to describe angles, polygons, and circles. The student is expected to:		
	(A) use angle measurements to classify angles as acute, obtuse, or right;	*Mathematics Course 1:* Lesson 8-3	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(B) identify relationships involving angles in triangles and quadrilaterals; and	*Mathematics Course 1:* Lesson 8-3, 8-4	Each section contains interactive online activities. Visit phschool.com and enter the code.
Week ___ to ___	(9) Geometry and spatial reasoning. The student recognizes the connection between ordered pairs of numbers and locations of points on a plane. The student is expected to locate and name points on a coordinate grid using ordered pairs of whole numbers.	*Mathematics Course 1:* Lesson 11-8	Each section contains interactive online activities. Visit phschool.com and enter the code.
Week ___ to ___	(10) Measurement. The student applies measurement concepts involving length (including perimeter), area, capacity/volume, and weight/mass to solve problems. The student is expected to:		
	(A) perform simple conversions within the same measurement	*Mathematics Course 1:*	Each section contains interactive online

	system (SI (metric) or customary);	Lesson 6-6, 6-7, 9-1, 9-2	activities. Visit phschool.com and enter the code.
	(B) connect models for perimeter, area, and volume with their respective formulas;	*Mathematics Course 1:* Lesson 9-3, 9-4, 9-8, 9-9	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(B) select and use appropriate units, tools, or formulas to measure and to solve problems involving length (including perimeter), area, time, temperature, volume, and weight;	*Mathematics Course 1:* Lesson 9-1	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(A) estimate measurements (including circumference) and evaluate reasonableness of results;	*Mathematics Course 1:* Lesson 9-1	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(C) measure angles; and	*Mathematics Course 1:* Lesson 8-2, 8-3	Each section contains interactive online activities. Visit phschool.com and enter the code.
Week ___ to ___	(11) Measurement. The student applies measurement concepts. The student measures time and temperature (in degrees Fahrenheit and Celsius). The student is expected to:		
	(A) solve problems involving changes in temperature; and	No resource in textbook. Find supplemental resource online.	Each section contains interactive online activities. Visit phschool.com and enter the code.

	(B) solve problems involving elapsed time.	*Mathematics Course 1:* Lesson 6-7	Each section contains interactive online activities. Visit phschool.com and enter the code.
Week ___ to ___	(12) Probability and statistics. The student describes and predicts the results of a probability experiment. The student is expected to:		
	(A) use fractions to describe the results of an experiment;	*Mathematics Course 1:* Lesson 10-3	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(B) use experimental results to make predictions; and	*Mathematics Course 1:* Lesson 10-4	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(C) list all possible outcomes of a probability experiment such as tossing a coin.	*Mathematics Course 1:* Lesson 10-2	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(B) find the probabilities of a simple event and its complement and describe the relationship between the two.	*Mathematics Course 1:* Lesson 10-5	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(A) construct sample spaces using lists and tree diagrams; and	*Mathematics Course 1:* Lesson 10-1	Each section contains interactive online activities. Visit phschool.com and enter the code.

Week ___ to ___	(13) Probability and statistics. The student solves problems by collecting, organizing, displaying, and interpreting sets of data. The student is expected to:		
	(A) use tables of related number pairs to make line graphs;	*Mathematics Course 1:* Lesson 2-3	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(B) describe characteristics of data presented in tables and graphs including median, mode, and range; and	*Mathematics Course 1:* Lesson 2-1, 2-2	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(A) select and use an appropriate representation for presenting and displaying different graphical representations of the same data including line plot, line graph, bar graph, and stem and leaf plot;	*Mathematics Course 1:* Lesson 2-3, 2-4, 2-6, 2-7	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(C) sketch circle graphs to display data; and	*Mathematics Course 1:* Lesson 7-8	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(D) solve problems by collecting, organizing, displaying, and interpreting data.	*Mathematics Course 1:* Chapter 2	Each section contains interactive online activities. Visit phschool.com and enter the code.
Week ___ to ___	(14) Underlying processes and mathematical tools. The student applies Grade		

	5 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:		
	(A) identify and apply mathematics to everyday experiences, to activities in and outside of school, with other disciplines, and with other mathematical topics;	*Mathematics Course 1:* Problem Solving Handbook Pg xxxii - ilxi	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(B) solve problems that incorporate understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness;	*Mathematics Course 1:* Problem Solving Handbook Pg xxxii - ilxi	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(C) select or develop an appropriate problem-solving plan or strategy, including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem; and	*Mathematics Course 1:* Problem Solving Handbook Pg xxxii – ilxi	
	(D) select tools such as real objects, manipulatives, paper/pencil, and technology or techniques such as mental math, estimation, and number sense to solve problems.	*Mathematics Course 1:* Problem Solving Handbook Pg xxxii – ilxi	Each section contains interactive online activities. Visit phschool.com and enter the code.
Week ___ to ___	(15) Underlying processes and mathematical tools. The student communicates about Grade 5 mathematics		

	using informal language. The student is expected to:		
	(A) communicate mathematical ideas using language, efficient tools, appropriate units, and graphical, numerical, physical, or algebraic mathematical models; and	*Mathematics Course 1:* Problem Solving Handbook Pg xxxii - ilxi	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(B) relate informal language to mathematical language and symbols.	*Mathematics Course 1:* Problem Solving Handbook Pg xxxii – ilxi	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(B) evaluate the effectiveness of different representations to communicate ideas.	*Mathematics Course 1:* Problem Solving Handbook Pg xxxii - ilxi	Each section contains interactive online activities. Visit phschool.com and enter the code.
Week ___ to ___	(16) Underlying processes and mathematical tools. The student uses logical reasoning. The student is expected to:		
	(A) make generalizations from patterns or sets of examples and nonexamples; and	*Mathematics Course 1:* Problem Solving Handbook Pg xxxii – ilxi	Each section contains interactive online activities. Visit phschool.com and enter the code.
	(B) justify why an answer is reasonable and explain the solution process.	*Mathematics Course 1:* Problem Solving Handbook Pg xxxii - ilxi	Each section contains interactive online activities. Visit phschool.com and enter the code.