M11.1 Extend understanding of arithmetic operations to rational numbers to solve problems within the home, money, recreation, and travel themes.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can apply arithmetic	I am able to	I am able to compare and convert	I am able to justify the
operations to whole	compare and order	among fractions, decimals, and	reasonableness of
numbers, integers,	integers.	percents in situational problems.	calculations.
fractions, decimals,	I am able to round	I can apply understanding of	I am able to solve
and percent with	decimals to the	combined percents or percents of	problems involving
technology.	nearest unit, tenth	percents in situational problems.	comparison or multi-
	and hundredth.		step situations.

M11.2 Demonstrate understanding of reasoning by analyzing puzzles and games.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I participate or	I can explain how to	I can determine strategies	I am able to observe, analyze,
play a game or	play the game.	for solving puzzles or	and explain errors in a solution
puzzle.	I can observe patterns	winning games and explain	to a puzzle or compare/contrast
	and/or strategies for a	these strategies.	strategies for winning a game.
	game.		

M11.3 Demonstrate understanding of data collection and analysis within the home, recreation, and travel themes.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I can read bar	I am able to interpret	I can collect data.	Given a particular set of data, I can
graphs, broken	bar graphs, broken line	I am able to explain the	identify and explain which type of
line graphs,	graphs, circle graphs,	difference between	graph I will use to represent the
and circle	and histograms.	primary and secondary	data.
graphs.	I am able to explain the	data collection.	I can pose a question, collect
	difference between	I can represent data on	primary or secondary data and
	population and sample.	bar graphs, broken line	represent data with an analysis.
		graphs, circle graphs, and	I can describe characteristics of a
		histograms.	good sample and why sampling is
			necessary.

M11.4 Demonstrate understanding of measurement in the Système International (metric) and Imperial System within the home and travel themes.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
Given a referent, I am	I am able to approximate	I am able to convert	I can estimate, measure,
able to estimate	measures between systems.	measures within and	and calculate perimeters,
measures and lengths	I can describe the situations in	between systems.	areas of rectangles,
in both systems.	which SI and/or Imperial units		triangles, and related
	of measurement are used.		composite shapes.

M11.5 Demonstrate understanding of angles to solve problems within the home theme.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I am able to classify	I am able to sketch and classify	I can solve for vertically	I can solve
angles of various	angles of various measures	opposite and adjacent	situational
measures including	including acute, right, straight,	angles that are	problems.
acute, right, straight,	obtuse, and reflex angles when	complementary or	I can estimate
obtuse, and reflex angles	given a measurement.	supplementary.	angles in the real
when given pictures.	I am able to identify vertically		world.
	opposite and adjacent angles		
	(complementary and		
	supplementary angles).		

M11.6 Demonstrate understanding of the Pythagorean Theorem to solve problems within the home theme.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I am able to label	I am able to apply the	I am able to apply the	I am able to observe and analyze
the hypotenuse and	Pythagorean theorem to	Pythagorean theorem	the use of the Pythagorean
legs of a right	solve for a missing	to solve for the	theorem in situational problems.
triangle.	hypotenuse with	missing leg.	I am able to determine if a
	technology.		triangle is a right triangle by
			using the Pythagorean Theorem.

M11.7 Demonstrate understanding of proportional reasoning within the home, money, recreation, and travel themes.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
Given a proportion I	I am able to create and	I am able to use proportional	I am able to explain and
am able to show a	solve proportions to find	reasoning to solve	apply strategies to solve
strategy to solve for	unit rate of items and/or	situational problems	and compare ratio and
an unknown.	the unit cost of items.	involving a single	rate problems.
		proportion.	

M11.8 Demonstrate understanding of income.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I am able to	I am able to complete	I am able to solve	I am able to estimate and
determine gross	time sheets.	problems and make	compare using current data, the
pay for an hourly	I am able to assess	decisions involving	percent of total earnings
wage with	information provided on	different payment	deducted through government
technology.	pay stubs.	methods and schedules.	payroll deductions for various
	I am able to determine	I can calculate my net	incomes.
	gross pay for any	pay given the	I am able to compare different
	situation.	deductions.	income options.

M11.9 Demonstrate understanding of responsible spending habits.

Beginning (1)	Approaching (2)	Proficiency (3)	Mastery (4)
I am able to	I am able to explain priorities in	I am able to solve	I am able to analyze the spending
identify recurring	spending habits.	situational	habits of a personal spending log
expenses and	I am able to determine PST and	questions related	(ie. credit card or debit card
unexpected	GST on purchases and discuss	to personal	statement or online banking)
expenses.	exemptions.	spending.	over a set period of time.