Math	Round Rock I.S.D. 2015-2016	
ARRC At-A-Glance Map	Grade Level: TAG 4 th Grade	Revision Date: 08-2015

4 St Alice	Washe	and auto-	Made
1 st Nine Weeks		2nd Nine Weeks October 26 – December 17	
August 25 – October 23		October 26 –	December 17
Refer to Instructional Timelines when planning units. R – Readi		ness Standard S – Supporting Standard NT – Not Eligible for STAAR	
Units- (All units include a computational	fluency component)	Units- (All units include a computational f	fluency component)
	1 – Place Value, Addition, Subtraction, Estimation, and Rounding (8 days) 2 – Operations and Data Analysis (10 days) 3 – Fractions (13 days) 4 – Patterns, Expressions, and Data Analysis (14 days) 5 – Multiplication and Division of Decimals (8 days) 6 – Multiplication and Division of Fractions (8 days)		mals (8 days)
Revised TEKS / Student Expectations:		Revised TEKS / Student Expectations:	
Overarching Process TEKS		Overarching Process TEKS	
4.1 (A) apply mathematics to problems arising in everyday life, society, and the workplace	5.1 (A) apply mathematics to problems arising in everyday life, society, and the workplace	4.1 (A) apply mathematics to problems arising in everyday life, society, and the workplace	5.1 (A) apply mathematics to problems arising in everyday life, society, and the workplace
4.1 (B) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness	5.1 (B) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness	4.1 (B) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness	5.1 (B) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness
of the solution	of the solution	of the solution	of the solution
Unit 1: Place Value, Addition, Subtraction,	Estimation, and Rounding	Unit 4: Patterns, Expressions, and Data An	alysis
4.2 (A) interpret the value of each place-value position as 10 times the position to the right and as one-tenth of the value of the place to its left 5 4.2 (B) represent the value of the digit in whole numbers through	5.2 (A) represent the value of the digit in decimals through the thousandths using expanded notation and numerals 5		5.4 (B) represent and solve multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity R 5.4 (C) generate a numerical pattern
1,000,000,000 and decimals to the hundredths using expanded notation and numerals R			when given a rule in the form $y = ax$ or $y = x + a$ and graph R 5.4 (D) recognize the difference
	5.2 (B) compare and order two decimals to thousandths and represent comparisons using the symbols >, <, or		between additive and multiplicative numerical patterns given in a table or graph <mark>S</mark>
	= R 5.2 (C) round decimals to tenths or		5.4 (E) describe the meaning of parentheses and brackets in a numeric

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	hundredths <mark>S</mark>		expression <mark>S</mark>
	5.3 (K)) add and subtract positive		5.4 (F) simplify numerical expressions
	rational numbers fluently R		that do not involve exponents,
	5.9 (A) represent categorical data with		including up to two levels of grouping R
	bar graphs or frequency tables and		5.9 (C) solve one- and two-step
	numerical data, including data sets of		problems using data from a frequency
	measurements in fractions or decimals,		table, dot plot, bar graph, stem-and-leaf
	with dot plots or stem-and-leaf plots S		plot, or scatterplot R
	5.10 (E) describe actions that might be		5.10 (B) explain the difference between
	taken to balance a budget when		gross income and net income S
	expenses exceed income <mark>S</mark>	Process TEKS Focus of Unit 4:	
Process TEKS Focus of Unit 1:		4.1 (D) communicate mathematical	5.1 (D) communicate mathematical
4.1 (F) analyze mathematical	5.1 (F) analyze mathematical	ideas, reasoning, and their implications	ideas, reasoning, and their implications
relationships to connect and	relationships to connect and	using multiple representations,	using multiple representations,
communicate mathematical ideas	communicate mathematical ideas	including symbols, diagrams, graphs,	including symbols, diagrams, graphs,
Computational Fluency of Unit 1:	<u>. </u>	and language as appropriate	and language as appropriate
	5.3 (A) estimate to determine solutions	4.1 (E) create and use representations	5.1 (E) create and use representations
	to mathematical and real-world	to organize, record, and communicate	to organize, record, and communicate
	problems involving addition,	mathematical ideas	mathematical ideas
	subtraction, multiplication, or division S	4.1 (F) analyze mathematical	5.1 (F) analyze mathematical
	5.3 (B) multiply with fluency a three-	relationships to connect and	relationships to connect and
	digit number by a two-digit number	communicate mathematical ideas	communicate mathematical ideas
	using the standard algorithm S	Computational Fluency of Unit 4:	
	5.3 (C) solve with proficiency for		5.3 (E) solve for products of decimals to
	quotients of up to a four-digit dividend		the hundredths, including situations
	by a two-digit divisor using strategies		involving money, using strategies based
	and the standard algorithm S		on place-value understandings,
			properties of operations, and the
			relationship to the multiplication of
			whole numbers <mark>R</mark>
			5.3 (G) solve for quotients of decimals
			to the hundredths, up to four-digit
			dividends and two-digit whole number
			divisors, using strategies and
			algorithms, including the standard
			algorithm <mark>R</mark>
			5.3 (K) add and subtract positive
			rational numbers fluently R

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Unit 2: Operations and Data Analysis		Unit 5: Multiplication and Division of Frac	tions
Unit 2: Operations and Data Analysis	5.3 (A) estimate to determine solutions to mathematical and real-world problems involving addition, subtraction, multiplication, or division S 5.3 (B) multiply with fluency a three-digit number by a two-digit number using the standard algorithm S 5.3 (C) solve with proficiency for quotients of up to a four-digit dividend	Unit 5: Multiplication and Division of Frac	5.3 (I) represent and solve multiplication of a whole number and a fraction that refers to the same whole using objects and pictorial models, including area models \$ 5.3 (J) represent division of a unit fraction by a whole number and the division of a whole number by a unit fraction such as 1/3 ÷ 7 and 7 ÷ 1/3
	by a two-digit divisor using strategies and the standard algorithm \$\frac{S}\$ 5.4 (A) identify prime and composite numbers \$\frac{S}\$ 5.4 (B) represent and solve multi-step problems involving the four operations	Process TEKS Focus of Unit 6:	using objects and pictorial models, including area models S 5.3 (L) divide whole numbers by unit fractions and unit fractions by whole numbers R
	with whole numbers using equations with a letter standing for the unknown quantity R 5.4 (F) simplify numerical expressions that do not involve exponents, including up to two levels of grouping R	4.1 (G) display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication Computational Fluency of Unit 6:	5.1 (G) display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication
4.9 (A) represent data on a frequency table, dot plot, or stem-and-leaf plot marked with whole numbers and fractions R	5.9 (A) represent categorical data with bar graphs or frequency tables and numerical data, including data sets of measurements in fractions or decimals, with dot plots or stem-and-leaf plots S	Computational Fluency of Onit 6.	5.4 (E) describe the meaning of parentheses and brackets in a numeric expression S 5.4 (F) simplify numerical expressions that do not involve exponents,
4.9 (B) Solve one- and two-step problems using data in whole number, decimal, and fraction form in a frequency table, dot plot, or stem-and-leaf plot S	5.9 (C) solve one- and two-step problems using data from a frequency table, dot plot, bar graph, stem-and-leaf plot, or scatterplot R 5.10 (F) balance a simple budget S		including up to two levels of grouping R
Process TEKS Focus of Unit 2: 4.1 (C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems	5.1 (C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems		

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4.1 (D) communicate mathematical ideas, reasoning, and their implications using multiple representations,	5.1 (D) communicate mathematical ideas, reasoning, and their implications using multiple representations,		
including symbols, diagrams, graphs,	including symbols, diagrams, graphs,		
and language as appropriate	and language as appropriate		
Computational Fluency of Unit 2:	and tanguage as appropriate		
Fluency with operations with whole num	ners and applications of basic facts		
Tracincy with operations with whole ham	sers and applications of basic facts		
Unit 3: Fractions		Unit 6: Multiplication and Division of Deci	<u>mals</u>
4.3 (D) compare two fractions with			5.3 (D) represent multiplication of
different numerators and different			decimals with products to the
denominators and represent the			hundredths using objects and pictorial
comparison using the symbols >, =, or <			models, including area models S
R		_	5.3 (E) solve for products of decimals to
4.3 (G) represent fractions and			the hundredths, including situations
decimals to the tenths or hundredths as			involving money, using strategies based
distances from zero on a number line S			on place-value understandings,
	5.3 (A) estimate to determine solutions		properties of operations, and the
	to mathematical and real-world		relationship to the multiplication of
	problems involving addition,		whole numbers R
	subtraction, multiplication, or division S	-	5.3 (F) represent quotients of decimals
	5.3 (H) represent and solve addition		to the hundredths, up to four-digit
	and subtraction of fractions with		dividends and two-digit whole number
	unequal denominators referring to the		divisors, using objects and pictorial
	same whole using objects and pictorial		models, including area models S
	models and properties of operations S		5.3 (G) solve for quotients of decimals
	5.3 (K) add and subtract positive		to the hundredths, up to four-digit
	rational numbers fluently R		dividends and two-digit whole number
	5.4 (H) represent and solve problems		divisors, using strategies and
	related to perimeter and/or area and		algorithms, including the standard
	related to volume R [perimeter only in		algorithm R
	this unit]	Process TEKS Focus of Unit 5:	aibairaini
Process TEKS Focus of Unit 3:	tins unitj	4.1 (E) create and use representations	5.1 (E) create and use representations
FIOLESS I LING FOLUS OF OTHERS.		Tit (L) create and use representations	3.1 (L) create and use representations

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4.1 (C) select tools, including real	5.1 (C) select tools, including real	to organize, record, and communicate	to organize, record, and communicate
objects, manipulatives, paper and	objects, manipulatives, paper and	_ mathematical ideas	mathematical ideas
pencil, and technology as	pencil, and technology as	Computational Fluency of Unit 5:	
appropriate, and	appropriate, and	Modeling multiplication and division of d	ecimals
techniques, including mental math,	techniques, including mental math,		
estimation, and number sense as	estimation, and number sense as		
appropriate, to solve problems	appropriate, to solve problems		
Computational Fluency of Unit 3:			
	5.4 (E) describe the meaning of		
	parentheses and brackets in a numeric	ric	
	expression <mark>S</mark>		
	5.4 (F) simplify numerical expressions		
	that do not involve exponents,		
	including up to two levels of grouping R		
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TBD			

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Math	Round Rock I.S.D. 2015-2016	
ARRC At-A-Glance Map	Grade Level: TAG 4 th Grade	Revision Date: 07-2015

3 rd Nine	e Weeks	4 th Nine	e Weeks
January 5 – March 25		March 28 – June 2	
Refer to Instructional Timelines when planning units. R – Readi		 ness Standard	NT – Not Eligible for STAAR
Units- (All units include a computational fluency component) Units- (All units include a computational fluency component)		luency component)	
7 – Measurement (15) 8 – Geometry (15) 9 – Personal Finance (7)		 10 - Applications of Geometry, Measurement, and Data (13) 11 - STAAR Review (5 days) 12 - Applications of Algebra (13) 13 - Personal Financial Literacy (13 days) 	
Revised TEKS / Student Expectations:			
Overarching Process TEKS		Overarching Process TEKS	
4.1 (A) apply mathematics to problems arising in everyday life, society, and the workplace	5.1 (A) apply mathematics to problems arising in everyday life, society, and the workplace	4.1 (A) apply mathematics to problems arising in everyday life, society, and the workplace	5.1 (A) apply mathematics to problems arising in everyday life, society, and the workplace
4.1 (B) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy,	5.1 (B) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy,	4.1 (B) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy,	5.1 (B) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy,
determining a solution, justifying the solution, and evaluating the problem-	determining a solution, justifying the solution, and evaluating the problem-	determining a solution, justifying the solution, and evaluating the problem-	determining a solution, justifying the solution, and evaluating the problem-
solving process and the reasonableness of the solution	solving process and the reasonableness of the solution	solving process and the reasonableness of the solution	solving process and the reasonableness of the solution
Unit 7: Measurement		Unit 10: Applications of Geometry, Measurement, and Data	
4.8 (B) convert measurements within the same measurement system, customary or metric, from a smaller unit into a larger unit or a larger unit	5.7 solve problems by calculating conversions within a measurement system, customary or metric S	4.7 (C) determine the approximate measures of angles in degrees to the nearest whole number using a protractor R	
into a smaller unit when given other equivalent measures represented in a table 5		4.7 (E) determine the measure of an unknown angle formed by two non-overlapping adjacent angles given one	
4.8 (C) solve problems that deal with measurements of length, intervals of time, liquid volumes, mass, and money using addition, subtraction,		or both angle measures <mark>S</mark>	5.4 (H) represent and solve problems related to perimeter and/or area and related to volume R
multiplication, or division as appropriate <mark>R</mark>			5.5 classify two-dimensional figures in a hierarchy of sets and subsets using

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Process TEKS Focus of Unit 7: 4.1 (E) create and use representations to organize, record, and communicate mathematical ideas Computational Fluency of Unit 7: 4.3 (C) determine if two given fractions are equivalent using a variety of methods \$	5.4 (G) use concrete objects and pictorial models to develop the formulas for the volume of a rectangular prism, including the special form for a cube (V = I x w x h, V = s x s x s, and V = Bh) NT 5.4 (H) represent and solve problems related to perimeter and/or area and related to volume R 5.6 (A) recognize a cube with side length of one unit as a unit cube having one cubic unit of volume and the volume of a three-dimensional figure as the number of unit cubes (n cubic units) needed to fill it with no gaps or overlaps if possible S 5.6 (B) determine the volume of a rectangular prism with whole number side lengths in problems related to the number of layers times the number of unit cubes in the area of the base S 5.1 (E) create and use representations to organize, record, and communicate mathematical ideas 5.9 (C) solve one- and two-step problems using data from a frequency table, dot plot, bar graph, stem-and-leaf plot, or scatterplot R	Process TEKS Focus of Unit 13: 4.1 (A) apply mathematics to problems arising in everyday life, society, and the workplace 4.1 (B) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution 4.1 (C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems Computational Fluency of Unit 13: Apply computational fluency in problem services.	graphic organizers based on their attributes and properties 5.7 solve problems bycalculating conversions within a measurement system, customary or metric 5.9 (C) solve one- and two-step problems using data from a frequency table, dot plot, bar graph, stem-and-leaf plot, or scatterplot 5.1 (A) apply mathematics to problems arising in everyday life, society, and the workplace 5.1 (B) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution 5.1 (C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems
Unit 8: Geometry		Unit 11: STAAR Review	
4.6 (A) identify points, lines, line segments, rays, angles, and perpendicular and parallel lines S 4.7 (A) illustrate the measure of an angle as the part of a circle whose center is at the vertex of the angle		4.6 (D) Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines or the presences of absence of angles of a specified size R 4.8 (A) identify relative sizes of	5.5 Classify two-dimensional figures in a hierarchy of sets and subsets using graphic organizers based on their attributes and properties R 5.7 Solve problems by calculating

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that is "cut out" by the rays of the		measurement units within the	conversions within a measurement
			The state of the s
angle. Angle measures are limited to		customary and metric systems	system, customary, or metric S
whole numbers NT		4.0 (D)	
4.7 (B) illustrate degrees as the units		4.8 (B) convert measurements within	
used to measure an angle, where		the same measurement system,	
1/360 of any circle is one degree and		customary or metric, from a smaller	
an angle that "cuts" n/360 out of any		unit into a larger unit or a larger unit	
circle whose center is at the angle's		into a smaller unit when given other	
vertex has a measure of <i>n</i> degrees.		equivalent measures represented in a	
Angle measures are limited to whole		table <mark>S</mark>	
_ numbers <mark>NT</mark>			
4.7 (C) determine the approximate		4.8 (C) solve problems that deal with	
measures of angles in degrees to the		measurements of length, intervals of	
nearest whole number using a		time, liquid volumes, mass, and money	
protractor R		using addition, subtraction,	
4.7 (D) draw an angle with a given		multiplication, or division as	
measure <mark>S</mark>		appropriate R	
4.7 (E) determine the measure of an			5.4 (F) Simplify numerical expressions
unknown angle formed by two non-			that do not involve exponents,
overlapping adjacent angles given			including up to two levels of grouping R
one or both angle measures S			5.4 (H) Represent and solve problems
4.5 (D) solve problems related to	5.4 (H) represent and solve problems	4.5 (D) use models to determine the	related to perimeter and/or area and
• •	1	formulas for the perimeter of a	related to volume R
perimeter and area of rectangles	related to perimeter and/or area and	rectangle (<i>l+w+l+w</i> or <i>2l+2w</i>) including	related to volume in
where dimensions are whole	related to volume R	the special form for perimeter of a	
numbers R		· ·	
	5.5 classify two-dimensional figures in a	square (4s) and the area of a rectangle	
	hierarchy of sets and subsets using graphic	_(lxw) <mark>R</mark>	7.0(1) 7.0
	organizers based on their attributes and		5.10 (A) Define income tax, payroll tax,
	properties R	-	sales tax, and property tax S
	5.4 (F) simplify numerical expressions that	4.5 (A) Represent multi-step problems	5.4 (B) Represent and solve multistep
	do not involve exponents, including up to	involving the four operations with	problems involving the four operations
	two levels of grouping R	whole numbers using trip diagrams and	with the whole numbers using
Process TEKS Focus of Unit 8:		equations with a letter standing for the	equations with a letter standing for an
4.1 (E) create and use	5.1 (E) create and use representations to	unknown quantity <mark>R</mark>	unknown quantity <mark>R</mark>
representations to organize, record,	organize, record, and communicate	4.5 (B) Represent problems using an	5.4 (C) Generate a numerical pattern
and communicate mathematical	mathematical ideas	input-output table and numerical	when given a rule in the form of y=ax or
ideas		expressions to generate a number	y=x+a and graph R
Computational Fluency of Unit 8:	I	patterns that follows a given rule	_
comparational ridency of officer	5.3 (I) represent and solve multiplication	representing the relationship of the	
	of a whole number and a fraction that	values in the resulting sequence and	
	refers to the same whole using objects	their position in the sequence R	
	Terers to the same whole using objects	,	1

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	nd pictorial models, including area nodels S. .3 (L) divide whole numbers by unit ractions and unit fractions by whole umbers R.	4.9 (B) Solve one- and two- step problems using data in whole number, decimal, and fraction form in a frequency table, dot plot, or stem-and-leaf plot S	5.9 (C) Solve one- and two- step problems using data from a frequency table, dot plot, bar graph, stem-and-leaf plot, or scatterplots R
Unit 9: Personal Finance		Unit 12: Applications of Algebra	
4.10 (B) calculate profit in a given situation S 4.10 (C) compare the advantages and disadvantages of various savings options NT 4.10 (A) distinguish between fixed and			5.4 (B) Represent and solve multistep problems involving the four operations with the whole numbers using equations with a letter standing for an unknown quantity R 5.4 (C) Generate a numerical pattern
variable expenses S Process TEKS Focus of Unit 9:			when given a rule in the form of y=ax or y=x+a and graph R
4.1 (A) apply mathematics to problems arising in everyday life, society, and the workplace	5.1 (A) apply mathematics to problems arising in everyday life, society, and the workplace		5.4 (D) recognize the difference between additive and multiplicative numerical patterns given in a table or
Computational Fluency of Unit 9: Apply computational fluency in problem s	solving		graph S 5.4 (E) describe the meaning of parentheses and brackets in a numeric expression S
			5.4 (F) Simplify numerical expressions that do not involve exponents, including up to two levels of grouping R
		Process TEKS Focus of Unit 12:	
		4.1 (D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate	5.1 (D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate
		4.1 (E) create and use representations to organize, record, and communicate mathematical ideas	5.1 (E) create and use representations to organize, record, and communicate mathematical ideas
		4.1 (F) analyze mathematical relationships to connect and communicate mathematical ideas	5.1 (F) analyze mathematical relationships to connect and communicate mathematical ideas
		Computational Fluency of Unit 12: Apply computational fluency in problem	solving
		Unit 13: Personal Financial Literacy 4.10 (B) calculate profit in a given situation S	

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	4.10 (C) compare the advantages and	
	disadvantages of various savings	
	options NT	
	4.10 (A) distinguish between fixed and	5.10 (A) define income tax, payroll tax,
	variable expenses <mark>S</mark>	sales tax, and property tax S
		5.10 (B) explain the difference between
		gross income and net income S
		5.10 (C) identify the advantages and
		disadvantages of different methods of
		payment, including check, credit card,
		debit card, and electronic payments NT
		5.10 (D) develop a system for keeping
		and using financial records NT
		5.10 (E) describe actions that might be
		taken to balance a budget when
		expenses exceed income S
		5.10 (F) balance a simple budget S
		5.9 (A) represent categorical data with
		bar graphs or frequency tables and
		numerical data, including data sets of
		measurements in fractions or decimals,
		with dot plots or stem-and-leaf plots S
		5.9 (C) solve one- and two-step
		problems using data from a frequency
		table, dot plot, bar graph, stem-and-leaf
		plot, or scatterplot R
	Process TEKS Focus of Unit 11:	
	4.1 (A) apply mathematics to problems	5.1 (A) apply mathematics to problems
	arising in everyday life, society, and the	arising in everyday life, society, and the
	workplace	workplace
	Computational Fluency of Unit 11:	
	Apply computational fluency in problem	solving
STAAR-Ready Assessment	STA	AR –
TBD	STAAR Test	May 9, 2016
AIMSweb		Sweb
TBD	TBD	

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