Elementary Curriculum Maps



4th Grade Session - Math Curriculum, Instruction & Assessment (CIA)

Priority Standards	Textbooks And Other Curriculum Resources
Link to the Math CCSS This is a link to a document with the progression of skills and corresponding standards TK-8 that have been identified as a priority for preparing students to be successful in Algebra by the 8th grade. Also, please use the MATH STUDY GUIDE as a resource for standards, curriculum, evidence based practices, differentiation, assessment and grading best practices and resources.	 Go Math Instruction and Standards Practice Books Think Central Personal Math Trainer Go Math - Show & Share (Exit Tickets) Go Math Reteach and Enrich Go Math ISE and Math on the Spot Videos Homework - informal assessments (modified) GO Math Online Test (modified) Manipulates that came with Go Math iReady Eureka Math Suggested order of chapters: 1, 2, 3, 5, 4, 7, 6 (Measurement & Data, Geometry embedded)
Grading Best Practices	Technology Tools To Support Teaching & Learning
Rubric Grading Grade 1: Student demonstrates progress towards standards Grade 2: Monitor student effort towards goals Student Choice Indicate when they are ready for assessment Choice of how to show their thinking Communication Weekly updates Grades in Google Classroom	 Freckle (free version and paid for version) Khan Academy XtraMath (fact fluency) EdPuzzle - easily synced to Google Classroom Mr. Math Blog videos - all Go Math Lessons - ALL GRADE LEVELS MathAntics Achieve the core - guidance documents Kahoot Quizizz - syncs to Google Classroom Wootmath.com - virtual manipulatives PHET Simulators - Math/Science

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 Only grade most essential standards Provide feedback on assignments 	youtube - number rock
 Hybrid between traditional grading and a pass/no credit policy that will encourage high-achieving 	
students to continue to set ambitious academic goals for themselves	
 District-wide agreement on the types of assignments that should receive formal grade/be scored (purposeful grading and purposeful assignments) 	
 Agreed upon district-wide components of the curriculum that teachers should grade, the assessment 	
instruments that teachers should use, and the format of students' final grades.	
Modes of Communication	Other Information/Considerations

	Fluency	(Counting & Cardinality) TK/K only Operations & Algebraic Thinking	Numbers & Operations Fractions (3th-5th grade)	Measurement & Data Geometry
Progression Of Skills Use this to identify priority standards Standards SB County Math Resource	4.NBT.B.4 Fluently add and subtract multi-digit whole numbers using the standard algorithm.	4 OA.3 Use the four operations with whole numbers to solve problems. (focus on multi-step word problems and reasonableness of answers) 4 OA.B Gain familiarity with factors and multiples. 4.OA.C.5 Generate and analyze patterns (place value support)	4 NBT.A Generalize place value understanding for multi-digit whole numbers. 4 NBT.B.5 Use place value understanding and properties of operations to perform multi-digit arithmetic. 4 NF.A Extend understanding of fraction equivalence and ordering. 4 NF.B Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers. 4 NF.C Understand decimal notation for fractions, and compare decimal fractions.	 4.MD.A Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit. 4.MD.B Represent and interpret data. 4.MD.A.3 Perimeter and area 4.MD.6 and 7 Geometric measurement: understand concepts of angle and measure angles. 4.G.1 and 2 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
Skills/ Key Vocabulary	Skills • fact fluency • place value • addition/subtraction with algorithm Vocabulary • addition • subtraction • sum • difference • regroup • addend • minuend	Skills whole number operations - +, -, x, / multi step problems context clues simplifying fractions / equivalent fractions fact fluency place value long division basic reading skills to do math study skills multidigit addition, subtraction, multiplication, division	Skills conceptual knowledge of fractions - part / whole basic reading skills to do math study skills Visual representation of problems with manipulatives (technology) multiple strategies for problem solving knowing how to break down a problem to determine next steps for solving	Skills place value/powers of ten relative benchmark measurements line plots input/output charts open number lines polygons (three and four sided) line of symmetry decomposing composite shapes correct use of measurement tools Vocabulary line plots

 subtrahend 	multiple strategies for problem solving	numerator	 units of measurement
	 knowing how to break down a problem 	 denominator 	o length
	to determine next steps for solving	part	■ inches, feet, yards,
	Base ten number system (regrouping)	whole	miles
	 Visual representation of problems with 	 equivalent fractions 	■ millimeter,
	manipulatives (technology)	simplify	centimeter, meter,
		 mixed numbers 	kilometer
	<u>Vocabulary</u>	 improper fractions 	o volume
	• quotient	unit fraction	■ oz, cups, pints,
	 dividend 	 benchmark fractions 	quarts, gallons
	divisor	compare	■ milliliter, centiliter,
	 remainder 	 greater than/less than/equal to 	liter, kiloliter
	factors	 order/ordering fractions 	o mass
	 multiples 		■ oz, pounds, ton
	● row		■ milligram,
	• column		centigram, gram,
	product		kilogram
	addends		area
	• sum		o row
	 greater than, less than 		o column
	 context clues 		o units
	 difference 		o square units
	estimate		perimeter
			o units
			o length
			o width
			 quadrilateral
			o parallelogram
			o rhombus
			o square
			o rectangle
			 trapezoid

			 triangle isosceles scalene equilateral obtuse acute right angle clockwise counterclockwise obtuse acute right straight degree segment ray line point
Content Resources	•	•	
<u>Assessments</u>	Classroom Formative/Summative	er Checkpoints	District-Wide Cumulative iReady Diagnostic (3x/yr)iReady Standards Check (2x/yr)SBAC

Performance Tasks	1.	1.	1.
Differentiation Identify strategies to adjust content, teaching processes, and the work students are expected to produce to support struggling students and accelerate learning for advanced students towards meeting and exceeding standards e.g. specific use of visual aids, curriculum compacting, leveled text etc. Examples of differentiated lessons	Content (Curriculum)	Process (Teaching Practices)	Product (Student Work)