

Updated: Summer of 2018

Units	STANDARD	OBJECTIVES (What it looks like in the classroom) The learner will ...	DATES TAUGHT	ASSESSMENT TYPE (classroom, MAP testing, objective, subjective, project, etc.)	RESOURCES (Materials, web sites, auto-visual, print) LEARNING ACTIVITIES
<b>Unit 1</b>  <b>NUMBER</b>	MA 7.1	Students will communicate number sense concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.	Aug-Sept	Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	
	<b>MA.7.1.1 Numeric Relationships</b>	Students will demonstrate, represent, and show relationships among rational numbers within the base-ten number system.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	
	<b>MA 7.1.2 Operations</b>	Students will compute with rational numbers accurately.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	

	MA 7.1.2.a	Solve problems using proportions and ratios (e.g., cross products, percents, tables, equations, and graphs).		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 25-32, 55-62, 99-102, 103-110, 111-118, 119-120, 121-128, 129-136, 137-139, 141-142, 143-150, 319-326
	MA 7.1.2.b	Add, subtract, multiply, and divide rational numbers (e.g., positive		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 199-202, 203-210, 215-222, 229-232, 233-240, 241-242, 243-250, 263-270, 271-278, 283-290, 291-298, 299-306, 311-318, 319-326, 327-334
	MA 7.1.2.c	Apply properties of operations as strategies for problem solving with rational numbers.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 233-240, 241-242, 243-250, 311-318, 327-334
	MA 7.1.2.d	Use multiple strategies to add, subtract, multiply, and divide integers		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 199-202, 203-210, 211-214, 215-222, 229-232, 233-240, 241-242, 243-250

	MA 7.1.2.e	Estimate and check reasonableness of answers using appropriate strategies and tools.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 111-118
<b>Unit 2</b> <b>ALGEBRA</b>	MA 7.2	Students will communicate algebraic concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.	Oct-Dec	Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	
	<b>MA 7.2.1 Algebraic Relationships</b>	Students will demonstrate, represent, and show relationships with expressions, equations, and inequalities.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	
	MA 7.2.1.a	Describe and create an inequality from words and pictures (e.g., one-step, one-variable).		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 493-496, 497-498, 500-504, 505, 508-512, 513, 516-520

	MA 7.2.1.b	Represent real-world situations with proportions.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 9-16, 17-23, 25-32, 33-39, 55-62
	<b>MA 7.2.2 Algebraic Processes</b>	Students will apply the operational properties when evaluating expressions, and solving equations and inequalities.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	
	MA 7.2.2.a	Solve equations using the distributive property and combining like terms		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 241-242, 375-282
	MA 7.2.2.b	Use factoring and properties of operations to create equivalent algebraic expressions (e.g., $2x + 6 = 2(x + 3)$ ).		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 241-242, 367-374, 375-382, 387-394, 395-401, 403-410, 411-414, 415-421

	MA 7.2.2.c	Given the value of the variable(s), evaluate algebraic expressions (including absolute value).		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 350-356, 374, 382, 394
	MA 7.2.2.d	Solve two-step equations involving rational numbers which include the integers.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 465-468, 469-475, 477-480, 481-488
	MA 7.2.2.e	Solve one-step inequalities involving integers and rational numbers and represent solutions on a number line.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 493-496, 497-504, 505-512
	<b>MA 7.2.3 Applications</b>	Students will solve real-world problems involving expressions, equations, and inequalities.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	

	MA 7.2.3.a	Describe and write linear equations from words and tables.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 439-443, 445-446, 449-453, 455-456, 457-464
	MA 7.2.3.b	Write a two-step equation to represent real-world problems involving rational numbers in any form		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 465-468, 469-476, 477-480, 481, 484-487
	MA 7.2.3.c	Solve real-world problems with equations that involve rational numbers in any form.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 17-24, 199-202, 203-210, 211-214, 215-222, 225-227, 229-232, 233-240, 243-250, 279-282, 283-290, 291-298, 299-306, 307-309, 311-318, 319-326, 327-334, 383-385
	MA 7.2.3.d	Solve real-world problems with inequalities.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 493-496, 497-504, 505-512, 513-520

	MA 7.2.3.e	Use proportional relationships to solve real-world problems, including percent problems, (e.g., % increase, % decrease, mark-up, tip, simple interest).		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 25-32, 55-62, 99-102, 103-110, 111-118, 119-120, 121-128, 129-136, 137-139, 141-142, 143-150, 151-158, 159-166, 167-174, 319-326
	MA 7.2.3.f	Solve real-world problems involving scale drawings using a proportional relationship.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 571-574, 575-582, 583-584
<b>Unit 3</b> <b>GEOMETRY</b>	MA 7.3	Students will communicate geometric concepts and measurement concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.	Jan-Mar	Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	
	<b>MA 7.3.1</b> <b>Characteristics</b>	Students will identify and describe geometric characteristics of two-dimensional shapes.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	

	MA 7.3.1.a	Apply and use properties of adjacent, complementary, supplementary, and vertical angles to find missing angle measures.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 535-542, 543-550
	MA 7.3.1.b	Draw triangles (freehand, using a ruler and a protractor, and using technology) with given conditions of three measures of angles or sides, and notice when the conditions determine a unique triangle, more than one triangle, or no triangle.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 551-554, 555-562, 563-566
	<b>MA 7.3.2 Coordinate Geometry</b>	Students will determine location, orientation, and relationships on the coordinate plane.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	
	<b>MA 7.3.3 Measurement</b>	Students will perform and compare measurements and apply formulas.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	



	MA 7.3.3.a	Solve real-world problems involving perimeter and area of composite shapes made from triangles, quadrilaterals and polygons.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 631-638, 647-648, 673-676
	MA 7.3.3.b	Solve real-world problems involving surface area and volume of composite shapes made from rectangular and triangular prisms.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 639-646, 661-664, 665-671, 673-676, 685-688, 689-696
	MA 7.3.3.c	Determine the area and circumference of circles both on and off the coordinate plane.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 611-612, 613-620, 621-622, 623-630, 631-638, 647-649
<b>Unit 4 DATA</b>	<b>MA 7.4</b>	Students will communicate data analysis/probability concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.	Apr-May	Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	

	<b>MA 7.4.1 Representations</b>	Students will create displays that represent data.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	
	MA 7.4.1.a	Represent data using circle graphs.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 839, 841, 842
	<b>MA 7.4.2 Analysis &amp; Applications</b>	Students will analyze data to address the situation.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	
	MA 7.4.2.a	Solve problems using information presented in circle graphs.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	

	MA 7.4.2.b	Explain the difference between a population and a sample.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 793-800, 801-808, 821-823
	MA 7.4.2.c	Generate conclusions about a population based upon a random sample.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 793-800, 801-808, 809-812
	MA 7.4.2.d	Determine and critique biases in different data representations.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 802-807
	<b>MA 7.4.3 Probability</b>	Students will interpret and apply concepts of probability.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	

	MA 7.4.3.a	Generate a list of possible outcomes for a simple event.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 711-718, 719-720
	MA 7.4.3.b	Describe the theoretical probability of an event using a fraction, percentage, and decimal.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 721-727
	MA 7.4.3.c	Find theoretical probabilities for independent events.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 776-777
	MA 7.4.3.d	Perform simple experiments and express the degree of likelihood (possible, impossible, certain, more likely, equally likely, or less likely); write as fractions and percentages.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 719-720, 729-732

	MA 7.4.3.e	Find experimental probability for independent events.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 773-774, 777-781
	MA 7.4.3.f	Compare and contrast theoretical and experimental probabilities.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 721-727
	MA 7.4.3.g	Find the probability of dependent compound events.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 773-774, 775-781
	MA 7.4.3.h	Identify complementary events and calculate their probabilities.		Classroom, MAP testing, objective, subjective, summative, C4L's, project, etc.	Student Edition: 713-715





