



# Independent School District of Boise City Curriculum Map

## Math in the Workplace 2

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<b><u>Scope and Sequence Summary</u></b>	
<b><u>Semester 1</u></b>	
Expressions Involving Integers and Fractions	
Properties of Algebra	
Solving Single Variable Equations and Inequalities	
Applications Using Single Variable Equations	
Monomials and Polynomials	
Factoring	
Statistics of Central Tendency	
Probability	
<b><u>Semester 2</u></b>	
Algebraic Fractions	
Functions and Linear Graphs	
Irrational Numbers and Radical Equations	
Introduction to Geometry	
Introduction to Quadratic Equations	

<b>Test</b>	<b>Window</b>
Idaho State Achievement Test	
Wkpl 2 Math EOC	End of 1 <sup>st</sup> Semester
Wkpl 2 Math EOC	End of 2 <sup>st</sup> Semester
<b>ISAT</b>	Apr-May

# Scope and Sequence

## Math in the Workplace 2

### **SEMESTER 1**    **Calculator Allowed on EOC Test**

Chapter 1 & Chapter 2 Review: Arithmetic with Letters and The Rules of Arithmetic

Chapter 3:    Linear Equations with One Variable

Chapter 4:    Applications of Algebra

Chapter 5:    Exponents and Polynomials

Chapter 6:    Factoring

Chapter 7:    Data, Statistics, and Probability

### **SEMESTER 2**    **Calculator Allowed on EOC Test**

Chapter 8:    Fractions and Algebra

Chapter 9:    Linear Equations and Inequalities in the Coordinate Plane

Chapter 11:    Irrational Numbers and Radical Expressions

Chapter 12:    Geometry

Chapter 13:    Quadratic Equations

## Vocabulary Math in the Workplace 2

<p><b><u>Chapter 1</u></b>            Open Statements            Variables            Coefficients            Integers            Powers            Absolute value            Terms            Like terms            Simplify            Exponent            Base</p>	<p><b><u>Chapter 2</u></b>            Commutative property            Associative property            Distributive property            Additive Inverse            Multiplicative Inverse            Power            Root</p>
<p><b><u>Chapter 3</u></b>            Algebraic equation            Literal equations            Constants            Pythagorean theorem            Hypotenuse            Equality</p>	<p><b><u>Chapter 4</u></b>            Percent            Interest            Principal            Proportion</p>
<p><b><u>Chapter 5</u></b>            Exponents            Negative Exponents            Scientific Notation            Polynomials            Degree of Polynomial            Standard Form of Polynomial            Monomial            Binomial            Trinomial</p>	<p><b><u>Chapter 6</u></b>            Prime number            Composite number            Greatest Common Factor            Perfect Squares            Perfect Square Trinomial            Quadratic Equations</p>
<p><b><u>Chapter 7</u></b>            Frequency Table            Histogram            Stem and Leaf Plot            Range            Mean, Median, and Mode            Measures of Central Tendency            Box and Whisker Plot</p>	<p><b><u>Chapter 7</u></b>            Probability            Theoretical Probability            Complementary Events            Sample Space            Dependent Events            Independent Events            Factorial Notation            Permutations</p>

<p><b><u>Chapter 8</u></b>  Rational Numbers  Simplest Form  Algebraic Fractions  Rational Expression  Complex Fraction  Least Common Multiple  Undefined  Excluded value</p>	<p><b><u>Chapter 9</u></b>  x-axis, y-axis  Origin  Quadrants  y-intercept, x-intercept  Slope  Independent Variable  Dependent Variable  Relation  Function  Domain, Range</p>
<p><b><u>Chapter 10</u></b>  Parallel lines  Common Solutions  Intersecting Lines  Systems of Equations  Conjunction</p>	<p><b><u>Chapter 11</u></b>  Irrational Numbers  Terminating Decimal Expansion  Repeating Decimal Expansion  Radicals  Radical Sign  Radicand</p>
<p><b><u>Chapter 12</u></b>  Ray  Angle  Vertex  Adjacent Angles  Vertical Angles  Complementary Angles  Supplementary Angles  Plane  Transversal  Exterior Angles  Interior Angles  Corresponding Angles</p>	<p><b><u>Chapter 13</u></b>  Quadratic Equations  Sets of Roots  Quadratic Formula  Axis of Symmetry  Parabola  Symmetry</p>

# Performance Objectives

## Math in the Workplace 2

### Chapter 1 Algebra: Arithmetic with Letters

- ❑ Add, subtract, multiply, and divide integers
- ❑ Order of Operations
- ❑ Combine like terms

### Chapter 2 The Rules of Arithmetic

- ❑ Properties of Addition and Multiplication  
Commutative, Associative, Identity, Inverses, Zero properties, Distributive
- ❑ Simplify expressions using properties

### Chapter 3 Linear Equations with One Variable

- ❑ Properties of Equality
- ❑ Solve equations using subtraction and/or addition
- ❑ Solve equations using multiplication and/or division
- ❑ Solve equations with more than one operation
- ❑ Solve equations with variables on both sides
- ❑ Introduction of fraction coefficients
- ❑ Solve equations involving squares and roots as related to the Pythagorean Theorem
- ❑ Use formulas
- ❑ Solve and graph on a number line inequalities with one variable

### Chapter 4 Applications of Algebra

- ❑ Percent equations
- ❑ Distance = (Rate)(Time)
- ❑ Solving simple interest problems  $I = prt$
- ❑ Ratios and proportions

### Chapter 5 Exponents and Polynomials

- ❑ Simplify expressions using exponent rules
  - Product rule
  - Power of a power rule
  - Quotient rule
  - Zero exponents
  - Negative exponents
- ❑ Multiply monomials
- ❑ Divide monomials
- ❑ Convert numbers from scientific notation to standard notation and visa versa
- ❑ Classify polynomials
- ❑ Addition and subtraction of polynomials
- ❑ Use distributive property to multiply binomials and trinomials
- ❑ Divide a polynomial by a monomial

### **Chapter 6 Factoring**

- ❑ Prime factorization of integers
- ❑ Find the greatest common factor
- ❑ Factor polynomial expression using greatest common factor
- ❑ Factor trinomials with leading coefficient  $a = 1$
- ❑ Factor difference of squares
- ❑ Factor perfect square trinomials
- ❑ Use zero product property to solve equations by factoring
- ❑ Solve quadratic equations by factoring

### **Chapter 7 Data, Statistics, and Probability**

- ❑ Organize data in
  - Histogram
  - Stem-and-leaf
  - Frequency table
  - Box-and-whisker
- ❑ Identifying central tendencies of a data set
  - Mean
  - Median
  - Mode
  - Range
- ❑ Use Probability fraction
- ❑ Find probability of complementary events
- ❑ Sketch tree diagrams to show sample spaces
- ❑ Find probability of dependent and independent events
- ❑ Use fundamental principle of counting to determine permutations

### **Chapter 8**

- ❑ Simplify fractions
- ❑ Simplify algebraic fractions
- ❑ Multiply and divide algebraic fractions
- ❑ Simplify complex fractions
- ❑ Add and subtract algebraic fractions with different denominators
- ❑ Solve proportions
- ❑ Solve linear equations with fractions
- ❑ Determine excluded values for rational expressions

### **Chapter 9**

- ❑ Identify the parts of a coordinate plane system
- ❑ Graph linear equation by finding a table of ordered pairs
- ❑ Find x- and y-intercepts
- ❑ Slope of a line
- ❑ Slope intercept form of a line  $y = mx + b$
- ❑ Graph a line given the slope and a point
- ❑ Write an equation of a line given a point and the slope
- ❑ Write an equation of a line given two points

- ❑ Definition of function
- ❑ Vertical line test to determine a function.
- ❑ Function notation
- ❑ Determine the range and domain of a function
- ❑ Graph linear inequalities with two variables
- ❑ Solve inequalities with two variables by graphing

### **Chapter 11**

- ❑ Identify rational and irrational numbers
- ❑ Multiply and divide rational expressions
- ❑ Find square roots of perfect square numbers
- ❑ Simplify square roots when radicand is not perfect squares
- ❑ Simplify radical expressions
- ❑ Add and subtract radical expressions
- ❑ Multiply and divide radical expressions
- ❑ Solve equations with radical expressions

### **Chapter 12**

- ❑ Name and determine the measure of angles
- ❑ Measuring special angle pairs (linear pair, complements, supplements, vertical pair)
- ❑ Measuring special angles related to parallel lines in a plane (corresponding pair, alternate interior pair, same-side interior pair)
- ❑ Sum of the measures of the interior angles of a triangle theorem
- ❑ Classify triangles
- ❑ Classify quadrilaterals
- ❑ Congruent and similar triangles

### **Chapter 13**

- ❑ Solve quadratic equations by factoring
- ❑ Write quadratic equations from their roots
- ❑ Use quadratic formula to solve quadratic equations
- ❑ Graph quadratic equations

## MWP2 SEM 1 SUGGESTED SYLLABUS 2010-2011

Date	Event	Lecture/Discussion Topics	Assignments
Aug-23			
Aug-24			
Aug-25	<b>DAY 1</b>	Classroom Procedures, Expectations	
Aug-26		ADDITION and SUBTRACTION Integers	supplemental activity
Aug-27		ADDITION and SUBTRACTION Integers	supplemental activity
Aug-30		MULTIPLICATION and DIVISION Integers	supplemental activity
Aug-31		MULTIPLICATION and DIVISION Integers	supplemental activity
Sep-1		2-9 Radical Numbers	Test or Worksheet
Sep-2		2-10 Powers and Roots	pg. 55 Q1-22
Sep-3		2-11 Order Of Operations	pg. 57 Q1-22
<b>Sep-6</b>	<b>LABOR DAY</b>	<b>NO SCHOOL</b>	
Sep-7		SKILLS REVIEW TEST	
Sep-8		SKILLS REVIEW TEST CORRECTIONS	
Sep-9		3-1 Writing Equations	pg. 65 Q1-25
Sep-10		3-2 Solving Equations $x - b = c$	pg. 67 Q1-25
Sep-13		3-3 Solving Equations $x + b = c$	pg. 69 Q1-30
Sep-14		3-4 Solving Multiplication Equations	pg. 71 Q1-30
Sep-15		3-5 Solving Equations with fractions	pg. 73 Q1-30 (suggestion: rationalize instead of reciprocal)
Sep-16		3-6 Solving Multi-Step Equations	pg. 75 Q1-25
Sep-17		3-7 Solving Equations without Numbers	pg. 77 Q1-20
Sep-20		Flex Day	
Sep-21		3-8 Solving Formulas	pg. 79 Q1-25
Sep-22		3-9 Pythagorean Theorem	pg. 81 Q1-15
Sep-23		3-10 Inequalities on Number Line	pg. 86 Q1-25
Sep-24		3-11 Solving Inequalities	pg. 89 Q1-19
Sep-27		Flex Day	
Sep-28		CHAPTER 3 REVIEW	pg. 91 Q1-30
Sep-29		<b>CHAPTER 3 TEST</b>	pg. 97 Q1-10
<b>Sep-30</b>		CHAPTER 3 Test Corrections	
<b>Oct-1</b>		4-1 Writing Equations - Odd/Even Integers	

Oct-4		4-2 Solving with Percents	pg. 99 Q1-10
Oct-5		4-3 Using Percent Equation	pg. 103 Q1-20
Oct-6		4-4 Distance, Rate and Time Story Problems	pg. 105 Q1-5 (provide extra problems)
Oct-7	<b>State Workshop Days</b>	No School	
Oct-8	<b>State Workshop Days</b>	No School	
Oct-11		4-5 Common Unit Story Problems	pg. 109 Q1-10
Oct-12		4-6 Simple Interest	pg. 112 Q1-9
Oct-13		4-7 Mixture Problems	pg. 115 Q1-5 (provide extra problems)
Oct-14		4-8 Ratio and Proportions	pg. 117 Q1-15
Oct-15		CHAPTER 4 REVIEW	pg. 119 Q1-20
Oct-18		<b>CHAPTER 4 TEST</b>	
Oct-19		CHAPTER 4 Test Corrections	
Oct-20		5-1 Exponents	pg. 125 Q1-20
Oct-21		5-2 Negative Exponents	pg. 127 Q1-25
Oct-22		5-3 Exponents and Scientific Notation	pg. 130 Q1-20
Oct-25		5-4 Computing in Scientific Notation	pg. 132 Q1-20
Oct-26		5-5 Defining and Naming Polynomials	pg. 135 Q1-30
Oct-27		5-6 Adding and Subtracting Polynomials	pg. 137 Q1-20
Oct-28		5-7 Multiplying Polynomials	pg. 139 Q1-15
Oct-29		5-8 Special Polynomial Products	pg. 141 Q1-15
Nov-1		5-9 Dividing Polynomials by Monomials	pg. 143 Q1-15
Nov-2		5-10 Dividing Polynomials by Binomials	pg. 146 Q1-10
Nov-3		5-10 Dividing Polynomials by Binomials	pg. 146 Q11-25
Nov-4		5-11 Polynomials in two or more Variables	pg. 149 Q1-15
<b>Nov-5</b>	<b>STAFF DEVELOP</b>	<b>NO SCHOOL</b>	

Nov-8		CHAPTER 5 REVIEW	pg. 151 Q1-30
Nov-9		<b>CHAPTER 5 TEST</b>	
Nov-10		6-1 Greatest Common Factor	pg. 159 Q1-30
Nov-11		6-2 Factoring Polynomials	pg. 161 Q1-20
Nov-12		6-3 Factoring Trinomials	pg. 163 Q1-15
Nov-15		6-4 Factoring Trinomials	pg. 165 Q1-20
Nov-16		6-5 Factoring Difference of Squares	pg. 167 Q7-25
Nov-17		6-6 Factoring Trinomials	pg. 169 Q4-18
Nov-18		6-7 Zero as a Factor	pg. 173 Q1-25
Nov-19		6-8 Solving Quadratic Equations - Factoring	pg. 176 Q1-20
Nov-22	<b>THANKSGIVING</b>	<b>NO SCHOOL</b>	
Nov-23	<b>THANKSGIVING</b>	<b>NO SCHOOL</b>	
Nov-24	<b>THANKSGIVING</b>	<b>NO SCHOOL</b>	
Nov-25	<b>THANKSGIVING</b>	<b>NO SCHOOL</b>	
Nov-26	<b>THANKSGIVING</b>	<b>NO SCHOOL</b>	
Nov-29		CHAPTER 6 REVIEW	pg. 179 Q1-20, 26-30
Nov-30		<b>CHAPTER 6 TEST</b>	
Dec-1		CHAPTER 6 Test Corrections	
Dec-2		7-1 Organizing Data	pg. 186 Q1-10
Dec-3		7-2 Range, Mean, Mode, Median	pg. 190 Q1-15
Dec-6		7-3 Box and Whisker Plots	pg. 194 Q1-10
Dec-7		7-4 The Probability Fraction	pg. 198 Q1-20
Dec-8		7-5 Probability and Complementary Events	pg. 202 Q1-20
Dec-9		7-6 Tree Diagrams and Sample Spaces	pg. 205 Q1-15
Dec-10		7-7 Dependent and Independent Events	pg. 208 Q1-10

Dec-13		7-8 Fundamental Counting Principle	pg. 212 Q1-10
Dec-14		CHAPTER 7 REVIEW	pg. 215 Q1-25
Dec-15		<b>CHAPTER 7 TEST</b>	
Dec-16		CHAPTER 7 Test Corrections	
Dec-17	<b>EARLY RELEASE</b>	<b>HALF DAY SCHEDULE</b>	
Dec-20	<b>Winter break</b>	No School	
Dec-21	<b>Winter break</b>	No School	
Dec-22	<b>Winter break</b>	No School	
Dec-23	<b>Winter break</b>	No School	
Dec-24	<b>Winter break</b>	No School	
Dec-27	<b>Winter break</b>	No School	
Dec-28	<b>Winter break</b>	No School	
Dec-29	<b>Winter break</b>	No School	
Dec-30	<b>Winter break</b>	No School	
Dec-31	<b>Winter break</b>	No School	
Jan-3		EOC REVIEW	
Jan-4		EOC REVIEW	
Jan-5		EOC REVIEW	
Jan-6		EOC REVIEW	
Jan-7		EOC REVIEW	
Jan-10		EOC REVIEW	
Jan-11		EOC REVIEW	
Jan-12		EOC REVIEW	
Jan-13		EOC PRACTICE TEST	
Jan-14		EOC PRACTICE TEST	
Jan-17	<b>MLK DAY</b>	<b>NO SCHOOL</b>	
Jan-18		EOC Practice Test Corrections	
Jan-19	<b>EOC</b>	<b>HALF DAY SCHEDULE</b>	
Jan-20	<b>EOC</b>	<b>HALF DAY SCHEDULE</b>	
Jan-21	<b>EOC</b>	<b>HALF DAY SCHEDULE</b>	

# MWP2 SEM 2 SUGGESTED SYLLABUS

Date	Event	Lecture/Discussion Topics	Assignments
<b>Jan-24</b>	<i>Dist. In-service</i>	<i>NO SCHOOL</i>	
Jan-25		8-1 Fractions into Simplest Form	pg. 221 Q1-25
Jan-26		FACTORING with UNFOIL / DIFF SQUARES	supplemental activity
Jan-27		8-2 Simplifying Rational Expressions	pg. 223 Q1-20
Jan-28		8-3 Multiply / Divide Rational Expressions	pg. 225 Q1-20 (skip 8,9,18,19)
Jan-31		8-4 LCM / Complex Fractions	pg. 228 Q1-25
Feb-1		8-4 LCM / Complex Fractions	pg. 228 Q26-35
Feb-2		8-5 LCM / Complex Fractions	pg. 231 Q1-20
Feb-3		8-6 Add/Subtract Rational Expressions	pg. 233 Q1-15
Feb-4		8-6 Add/Subtract Rational Expressions	pg. 233 Q16-25
Feb-7		8-7 Solving Proportions	pg. 236 Q1-15
Feb-8		8-8 Solve Equations with Fractions	pg. 239 Q1-17 (suggestion: rationalize first)
Feb-9		8-9 Denominators and Zero	pg. 243 Q1-20
Feb-10		CHAPTER 8 Review	pg. 245 Q1-40
Feb-11		<b>CHAPTER 8 TEST</b>	
<b>Feb-14</b>		CHAPTER 8 Test Corrections	
Feb-15		9-1 The Coordinate Plane	pg. 252 Q1-25
Feb-16		9-2 Graphing Equations	pg. 255 Q1-10
Feb-17		9-3 Intercepts of Lines	pg. 257 Q1-15 Calculate and then draw graphs
Feb-18		9-4 Slopes Equation	pg. 260 Q1-15
Feb-21	<i>President's Day</i>	<i>NO SCHOOL</i>	
Feb-22		9-5 Writing Linear Equations	pg. 264, 1-15
Feb-23		9-5 Writing Linear Equations	supplemental activity
Feb-24		9-6 Lines as Functions	pg. 266 Q1-15
Feb-25		9-7 Domain and Range of Functions	pg. 269 Q1-13

Feb-28		9-8 Graphing Inequalities	pg. 274 Q1-15
Mar-1		9-9 Graphing and Naming Inequalities	pg. 278 Q1-20
Mar-2		CHAPTER 9 Review	pg. 293 Q1-25
Mar-3	<b><i>FLEX DAY</i></b>	<b><i>FLEX DAY FLEX DAY FLEX DAY</i></b>	
Mar-4		<b>CHAPTER 9 TEST</b>	
Mar-8		CHAPTER 9 Test Corrections	
Mar-9		10-1 Writing Equations - Parallel Lines	pg. 290 Q1-12
Mar-10		10-2 Writing Equations - Parallel Lines	pg. 293 Q1-15
Mar-11		10-2 MORE EQUATION WRITING	supplemental activity
Mar-12		10-3 / 10-4 Solving Linear Equations - Substitution	pg. 296 Q1-5 and pg. 300 Q1-8
Mar-15		10-4 MORE Solving with Substitution	supplemental activity
Mar-16		10-5 Solving Linear Equations w/Elimination	pg. 303 Q1-10 (rationalize fractions first!)
Mar-17		10-6 Graphing Systems of Linear Equations	pg. 305 Graph 1-4, Use Substitution / Elimination on rest
Mar-18		10-7 And Statements - Conjunctions	pg. 308 Q1-20
Mar-19		10-8 Problem Solving w/Linear Equations	pg. 313 Q1-10
Mar-22		CHAPTER 10 REVIEW	pg. 323 Q1-25
Mar-23	<b><i>FLEX DAY</i></b>	<b><i>FLEX DAY FLEX DAY FLEX DAY</i></b>	
Mar-24		<b>CHAPTER 10 TEST</b>	
Mar-25		CHAPTER 10 Test Corrections	
Mar-26	<b><i>Early Release</i></b>	<b><i>Half Day Schedule</i></b>	
<b>Mar-29</b>	<b><i>Spring Break</i></b>	<b><i>NO SCHOOL</i></b>	
<b>Mar-30</b>	<b><i>Spring Break</i></b>	<b><i>NO SCHOOL</i></b>	
<b>Mar-31</b>	<b><i>Spring Break</i></b>	<b><i>NO SCHOOL</i></b>	
<b>Apr-1</b>	<b><i>Spring Break</i></b>	<b><i>NO SCHOOL</i></b>	
<b>Apr-2</b>	<b><i>Spring Break</i></b>	<b><i>NO SCHOOL</i></b>	

Apr-5	11-1 Rational Numbers as Decimals	pg. 330 Q1-17
Apr-6	11-2 Rational Numbers Equivalents	pg. 333 Q1-12
Apr-7	11-3 Irrational Numbers	Students should be able to define and recognize irrational numbers
Apr-8	11-4 Products / Quotients of Radicals	pg. 337 Q1-25 (no rationalizing denominator)
Apr-9	11-4 Products / Quotients of Radicals	supplemental activity
Apr-12	11-5 Adding and Subtracting Radicals	pg. 339 Q1-20
Apr-13	11-5 Adding and Subtracting Radicals	supplemental activity
Apr-14	11-7 Radicals in Equations	pg. 344 Q1-20
Apr-15	11-7 Radicals in Equations	supplemental activity
Apr-16	CHAPTER 11 REVIEW	pg. 339 Q1-30
Apr-19	<b>CHAPTER 11 TEST</b>	
Apr-20	CHAPTER 11 Test Corrections	
Apr-21	12-1 Angles and Angle Measure	pg. 359 Q1-15
Apr-22	12-2 Pairs of Lines in a Plane and Space	pg. 363 Q1-27
Apr-23	12-3 Angle Measures in a Triangle	pg. 367 Q1-10
Apr-26	12-4 Naming Triangles	pg. 369 Q1-15
Apr-27	12-5 Quadrilaterals	pg. 371 Q1-5
Apr-28	12-6 Congruent and Similar Triangles	pg. 375 Q1-10
Apr-29	12-7 Trig Ratios	pg. 379 Q1-10
Apr-30	12-7 More Trig	supplemental activity
May-3	CHAPTER 12 REVIEW	pg. 381 Q1-20
May-4	<b>CHAPTER 12 TEST</b>	
May-5	CHAPTER 12 Test Corrections	
May-6	13-1 Solving Quadratic By Factoring	pg. 389 Q1-15
May-7	13-1 Solving Quadratic By Factoring	pg. 389 Q16-25

May-10		13-2 Writing Quadratic from Roots	pg. 391 Q1-13
May-11		13-2 Writing Quadratic from Roots	pg. 391 Q14-25
May-12		13-4 Solving with Quadratic Formula	pg. 397 Q1-14
May-13		13-5 Graphing Quadratics	pg. 400 Q1-10
May-14		13-5 Graphing Quadratics	supplemental activity
May-17		CHAPTER 13 REVIEW	
May-18		<b>CHAPTER 13 TEST</b>	pg. 403 Q1-30
May-19		CHAPTER 13 Test Corrections	
May-20		EOC Review	
May-21		EOC Review	
May-24		EOC Review	
May-25		EOC Review	
May-26		EOC Review	
May-27		EOC Review	
May-28		EOC Review	
May-31	<i>Memorial Day</i>	<i>NO SCHOOL</i>	
Jun-1		EOC Review	
Jun-2	<i>EOC</i>	<i>Half Day Schedule</i>	
Jun-3	<i>EOC</i>	<i>Half Day Schedule</i>	
Jun-4	<i>EOC</i>	<i>Half Day Schedule</i>	

# MWP2 SEM 1 SIMILAR PROBLEM LIST 2010-2011

## AGS ALGEBRA

CH	PG.	PROBLEMS	CONCEPT
3	65	6	Writing Equations
3	67	11, 14	Solving equation $x - b = c$
3	69	1, 3 (solve $11 + x = 6$ )	Solving equation $x + b = c$
3	71	19	Solving multiplication equations $ax = c$
3	75	5, 13, 17, 21 (var. on rt side of =)	Solving equations, more than one step
3	72	22	Solving equations with fractions
3	82	8, 10	Pythagorean theorem
3	87	10	Graphing inequalities
3	89	5, 10	Solving inequalities
4	102	1, 2, 3, 4	Find percent of a number
4	103	12	Solving percent story problem
4	107	4	Distance, rate, time story problem
4	111	example 1	Simple interest
4	117	4, 10	Solving proportions
5	124	1, 8, 9	Power rule and quotient rule
5	125	10	Quotient rule
5	128	22	Negative exponents
5	130	1, 12	Scientific notation to whole number and vice-versa
5	137	1, 2, 14	Adding and Subtracting polynomials
5	138	examples 1-3, 5	Multiplying polynomials
5	139	1	Multiplying polynomials
5	141	8	Special product polynomials
5	153	24	Dividing polynomial by monomial
6	159	16	Greatest common factor for algebraic expressions
6	161	12, 2, 6	Factoring algebraic expressions
6	163	1, 3, 9	Factoring trinomials $x^2 + bx + c$
6	167	9	Factoring difference of squares
6	173	16	Zero as a factor
6	176	6, 7, 8	Solving quadratics $ax^2 + bx + c$
7	190	1,2,3,4	Mean, median, mode
7	194	1,2,3,4 upper and lower quartiles	Box and Whisker plots - upper and lower quartiles
7	199	13, 15,16	Probability fraction
7	203	11	Probability spinner
7	209	7,8	Probability - marble problem
7	212	3,4,5,10	Fundamental counting principle

# MWP2 SEM 2 SIMILA

AGS

CH	PG.	PROBLEMS
8	223	6, 7, 17
8	225	15, 18, 19
8	229	33
8	231	20
8	233	11, 12
8	236	15
8	240	10
8	243	8, 10, 14, 17
9	255	1, 2, 3, 6, 7
9	257	10
9	260,1	5, 12, 13, 14
9	264	1, 2, 9, 13, 14
9	267	12, 13
9	278	4, 5
9	284	15
10	291	9
10	292	1
10	300	5
10	303	1
10	305	any 2 equations already in $y = mx + b$
10	313	1
10	325	23
11	330	2
11	333	1
11	337	2
11	337	19
11	339	7, 9, 14
11	344	1,2
12	359	13, 14
12	363	4, 5, 6
12	363	15-23
12	367	6, 7
12	369	3, 5, 6
13	388	1, 3
13	391	1, 2
13	397	10, 11
13	401	7, 8

# R PROBLEM LIST 2010-2011

## ALGEBRA

### CONCEPT

Simplifying rational expressions

Multiplying and dividing rational expressions

Simplifying complex fractions

Simplifying complex rational expressions

Sums and differences of rational expressions (LCD)

Solving variable proportions

Solving variable expressions with fractions

Denominators of zero

Graphing linear equations  $y = mx + b$

Finding x and y intercepts

Slope - positive, negative, zero. Slope Formula

Write the equation of a line given.....

Evaluate a function  $f(x) =$

Graphing inequalities

Graph the line that passes through  $(x, y)$   $(x, y)$

Write equation of a line parallel to  $y = mx + b$  through  $(0, y)$

Write equation of a line parallel to  $y = mx + b$  through  $(x, y)$

Common solution with substitution

Common solution with elimination

Find common solution with graphing

Problem solving using linear equations

Problem solving using linear equations

Write decimal expansion for irrational fraction

Write rational number for decimal expansion

Simplify whole number radical

Simplify rational number radical

Sums and differences of radicals

Solving radical equations

Find measure of each angle story problem

Identifying intersecting, parallel, skew lines

Identifying corresponding, alternate interior, supplementary angles

Find measure of an interior angle using a given exterior angle

Classifying triangles by angle and side properties

Solving quadratic equations  $x^2 + bx + c$

Find quadratic equation given 2 roots

Solving quadratic equations using quadratic formula

Graphing quadratic equations  $y = a(x \pm b)^2 \pm c$