



Independent School District of Boise City

Curriculum Map

Math in the Workplace 1

Table of Contents

Scope and Sequence	1
Vocabulary Semester 1	2
Semester 2	3
Performance Objectives	4
Common Final Similar Problem List (EOC)	
Semester 1	5
Semester 2	6
Suggested Syllabus	
Semester 1	7
Semester 2	8

Scope and Sequence Summary

Whole Numbers and Decimals	September
Number Theory,	Sept
Fractions	Sept
Rational Expressions	Sept/Oct
Ratios, Proportions and Percents	Oct/Nov
Integers	Nov
Exponents, Square Roots	Dec
And Pythagorean Theorem	
Equations from Geometry	Jan
Graphing Linear Equations	Feb
Geometry	March
Data, Statistics and Probability	March/April
Solving Equations	April/May

Test	Window
Idaho State Achievement Test	
Math Wkpl 1 EOC	End of 1 st Semester
ISAT	Early Apr.- Mid May
Math Wkpl 1 EOC	End of 2 nd Semester

Scope and Sequence Math in the Workplace 1

SEMESTER 1 Calculator may be used on EOC Test

- Chapter 1,2 Whole Numbers, Decimals
- Chapter 3 Number Theory
- Chapter 4 Fractions
- Chapter 5 Basic Operations and Rational Expressions
- Chapter 6 Ratios, Proportions, and Percents
- Chapter 7 Integers
- Chapter 8 Exponents

SEMESTER 2 Calculator may be used on EOC Test

- Chapter 9 Equations from Geometry
- Chapter 10 Graphing Linear Equations
- Chapter 11 Geometry
- Chapter 12 Data, Statistics, and Probability
- Dale Seymour Book Solving Equations

Vocabulary

Math in the Workplace 1

Semester 1

<p><u>Chapter 3</u> Divisibility Prime Number Greatest Common Divisor Greatest Common Factor Simplest Form Distributive Property</p>	<p><u>Chapter 3</u> Least Common Multiple Prime Factorization Scientific Notation Composite Number Common Factor</p>
<p><u>Chapter 4</u> Numerator Denominator Proper Fraction Improper Fraction Mixed Number Equivalent Fractions Simplest Form Reciprocal Like (common) denominator Unlike denominators</p>	<p><u>Chapter 5</u> Order of Operations Equation Root of the Equations Inverse Operation Complex Fraction Rational Expression</p>
<p><u>Chapter 6</u> Ratio Cross Products Proportion Equivalent Compound Interest Compounding Period</p>	<p><u>Chapter 7</u> Real number Integer Negative and positive integer Absolute value Opposites Consecutive</p>
<p><u>Chapter 8</u> Base Exponent Power Area Irrational Number Angle Pythagorean Theorem Right Angle Equilateral Triangle</p>	<p><u>Chapter 8</u> Square Cube Volume Square Root Scalene Triangle Hypotenuse Right Triangle</p>

Vocabulary

Math in the Workplace 1

Semester 2

<p><u>Chapter 9</u></p> <p>Perimeter Area Regular Polygon Volume Irregular Polygon Cylinder Sphere Rectangle Square Circle Triangle Pyramid Circumference Radius Diameter Right Rectangular Prism</p>	<p><u>Chapter 10</u></p> <p>Equality Vertical Graphing x-axis Solution y-axis Inequality Origin Linear Equation Slope Coordinate System Quadrant Horizontal Ordered Pair x-intercept y-intercept Slope-Intercept Form</p>
<p><u>Chapter 11</u></p> <p>Ray Vertex Adjacent Angles Vertical Angles Acute Right Obtuse Straight Complementary Angles Supplementary Angles Interior Angles Exterior Angles Scalene Isosceles Equilateral Right Triangle Congruent Triangles Similar Triangles Diagonals</p>	<p><u>Chapter 12</u></p> <p>Bar Graph Median Data Mode Interval Range Statistics Lower Extreme Circle Graph Lower Quartile Frequency Upper Extreme Frequency Table Upper Quartile Mean Outcome Probability Measures of Central Tendency Box and Whiskers Plot Fundamental Principle of Counting</p>
<p><u>DALE SEYMOUR SUPPLEMENTS</u></p> <p>Solve Inverse operation Reciprocal Rationalize</p>	

Performance Objectives Math in the Workplace 1

CHAPTER 3 FACTORS AND MULTIPLES

Number Theory

- ❑ Divisibility Rules
- ❑ Find common factors
- ❑ Find common multiples
- ❑ Prime factorization
- ❑ Distributive Property
- ❑ Scientific Notation

CHAPTER 5 BASIC OPERATIONS AND RATIONAL EXPRESSIONS

Simplify Expressions

- ❑ Order of Operations
- ❑ Evaluate Algebraic Expressions
- ❑ Solve Equations
- ❑ Complex Fractions
- ❑ Simplify Expressions

CHAPTER 6 RATIO, PROPORTION, PERCENT

Ratio, Proportion and Percent

- ❑ Solve ratios and proportions
- ❑ Convert percents to fractions and decimals
- ❑ Find percent of a number
- ❑ Find percent increase or decrease
- ❑ Use formulas and percents
- ❑ Use formulas to calculate taxes

CHAPTER 7 INTEGERS

Integers

- ❑ Use Number Line to represent integers
- ❑ Compare integers
- ❑ Even or odd integers
- ❑ Add, subtract, multiply and divide integers
- ❑ Use integers to compare elevations

CHAPTER 8 EXPONENTS, SQUARE ROOTS AND THE PYTHAGOREAN THEOREM

Exponents

- ❑ Multiply and divide exponents
- ❑ Use exponents to calculate area and volume

Square Roots

- ❑ Find perfect squares

- ❑ Find rational and irrational roots

Pythagorean Theorem

- ❑ Pythagorean Theorem
- ❑ Apply Pythagorean Theorem

ARITHMETIC AND ALGEBRA

- ❑ Represent numbers using letters
- ❑ Replace Variables
- ❑ Use Formulas
- ❑ Solve one and two step equations

CHAPTER 10 GRAPHING

Line Graph

- ❑ Solve equalities and inequalities
- ❑ Graph equalities and inequalities

The Coordinate System

- ❑ Locate and plot points
- ❑ Determine the points of a line
- ❑ Graph lines
- ❑ Find the slope of a line
- ❑ Use slope-intercept form of a line

CHAPTER 12 DATA, STATISTICS AND PROBABILITY

Data, Statistics, and Probability

- ❑ Bar graphs
- ❑ Circle graphs
- ❑ Frequency tables
- ❑ Calculate mean, median, mode and range
- ❑ Construct Box-and-Whisker plots
- ❑ Probability Fraction
- ❑ Fundamental Principle of Counting

DALE SEYMOUR SUPPLEMENTAL MATERIAL

Solving Variable Equations

- ❑ Solve addition and subtraction
- ❑ Solve multiplication and division
- ❑ Solve with fraction coefficients
- ❑ Solve two step equations
- ❑ Solve with like terms on same side of equal sign
- ❑ Solve with like terms on opposite side of equal sign
- ❑ Translate and solve word problems

Math in the Workplace 1 – Semester 1
 Similar Problem List
 DS = Dale Seymour Book A

Page	Problem	EOC problem number
Page 65	2-15	41
Page 67	1-20	41,42
Page 70	1-29	16,17,18
Page 74	1-19	43
Page 77	1-25	38, 39, 44
Page 89	1-35	1
Page 95	1-25	2
Page 97	3-25	3
Page 106	1-25	6, 4, 7
Page 109	1-20	15
Page 111	1-25	32, 33
Page 114	1-20	20, 31
Page 124	1-20	11,12,13
Page 129	1-20	21, 22, 25, 26, 20, 40
Page 133&135	5-15,1-10	8,9,10
Page 138	1-18	19
Page 143	1-20	5, 14, 23, 24, 49
Page 155	1-15	35
Page 161&164	8-15,1-27	36, 37
Page 167	1-10	45
Page 169	1-10	34, 47
Page 171	1-5	48
Page 173	1-5	46
Page 191 & 193	1-20, 1-15	27, 28
Page 196	1-24	29
Page 213 & 215	1-25, 1-25	51, 52
Page 225	1-10	50, 54
Page 228	1-10	55

Math in the Workplace 1 – Semester 2
 Similar Problem List
 DS = Dale Seymour Book A

Page	Problem	
300	1	find equation of given graph
294	1	
222	7	
285	4	
283	1	
307	3	
355	4	
350	4	average = mean
363	3	
215	1-12	
212	1	
283	6	
283	4	
359	4	
359	2,3	
359	5,6	
349	1 thru 4	
367	13,14	
277	6	
280	10	
301	1	
301	3	
307	7	
307	15	
291	2	
291	7	
291	12 thru 15	
294	3	
294	3	
361	2	
361	3	
225	1-10	
229	1-5	
229	1-5	
240	1-3	
285	2	
285	6	coefficient other than 1
244	7,8	
251	1-6	
255	1-5	
267	6-10	

266	1-5
262	2
269	1-4
321	4-9
321	10-15
325	1-5
325	6-10
325	11-13
317	6-9

MWP1 SEM 1 SUGGESTED SYLLABUS 2010-2011

Date	Event	Lecture/Discussion Topics	Assignments
Aug-23			
Aug-24			
Aug-25	DAY 1	Classroom Procedures, Expectations	
Aug-26		CH. 1 SKILLS ANALYSIS / REVIEW	
Aug-27		CH. 1 SKILLS ANALYSIS / REVIEW	
Aug-30		CH. 2 SKILLS ANALYSIS / REVIEW	
Aug-31		CH. 2 SKILLS ANALYSIS / REVIEW	
Sep-1		3-1 Divisibility rules	pg. 63 Q1-20
Sep-2		3-2 Prime and Composite numbers	pg. 65 Q2-15
Sep-3		3-3 Greatest Common Divisor	pg. 67 Q1-20
Sep-6	LABOR DAY	NO SCHOOL	
Sep-7		3-4 Factoring	pg. 70 Q1-29
Sep-8		3-5 Least Common Multiple	pg. 74 Q1-19
Sep-9		3-6 Scientific Notation	pg. 77 Q1-25
Sep-10		CHAPTER 3 REVIEW	pg. 79 Q1-45
Sep-13		CHAPTER 3 TEST	
Sep-14		CHAPTER 3 Test Corrections	
Sep-15	FLEX DAY	FLEX DAY FLEX DAY FLEX DAY	
Sep-16		4-2 Improper fractions and Mixed Numbers	pg. 89 Q1-35
Sep-17		4-3 Equivalent fractions	pg. 91 Q1-20
Sep-20		4-4 Simplest Form	pg. 95 Q1-25
Sep-21		4-5 Comparing and Ordering fractions	pg. 97 Q3-25
Sep-22		4-6 Common denominators	pg. 103 Q1-25
Sep-23		4-7 Unlike denominators	pg. 106 Q1-25
Sep-24		4-8 Subtracting fractions with regrouping	pg. 109 Q1-20
Sep-27		4-9 Multiplying fractions and mixed numbers	pg. 111 Q1-25
Sep-28		4-10 Dividing fractions and mixed numbers	pg. 114 Q1-20
Sep-29		CHAPTER 4 REVIEW	pg. 117 Q1-45
Sep-30		CHAPTER 4 TEST	
Oct-1		CHAPTER 4 Test Corrections	

Oct-4		5-1 Order of operations	pg. 124 Q1-20 NO CALCULATOR !!
Oct-5		5-2 Evaluating algebraic expressions	pg. 129 Q1-20
Oct-6		5-4/5-5 Solving addition and subtraction problems	pg. 133 Q5-15, pg. 135 Q1-10
Oct-7	STATE IN-SERVICE	NO SCHOOL	
Oct-8	STATE IN-SERVICE	NO SCHOOL	
Oct-11		5-6 Complex fractions	pg. 138 Q1-18
Oct-12		5-7 Simplifying by addition	pg. 141 Q1-15
Oct-13		5-7 Simplifying by addition	supplemental activity
Oct-14		5-8 Simplifying by subtraction	pg. 143 Q1-20
Oct-15		5-8 Simplifying by subtraction	supplemental activity
Oct-18		5-9 Multiplying rational expressions	pg. 145 Q1-20
Oct-19		5-9 Multiplying rational expressions	supplemental activity
Oct-20		CHAPTER 5 REVIEW	pg. 147 Q1-42
Oct-21		CHAPTER 5 TEST	
Oct-22		CHAPTER 5 Test Corrections	
Oct-25		APPLICATION: Converting Measurements	
Oct-26		6-1 Ratios	pg. 153 Q1-20
Oct-27		6-2 Proportions	pg. 155 Q1-15
Oct-28		6-3 Ratios and proportions	pg. 157 Q1-10 (use if/of method)
Oct-29	<i>end of 1st qtr</i>	6-4/6-5 Percents, Fractions, Decimals	pg. 161 Q8-15, pg. 164 Q1-27
Nov-1		6-6 Finding percent of a number	pg. 167 Q1-10 (use is/of method. create more questions)
Nov-2		6-7 Finding the percent	pg. 169 Q1-10 (use is/of method. create more questions)
Nov-3		6-8 Percent of increase / decrease	pg. 171 Q1-5 (consider part/total method. create more questions)
Nov-4		6-9 Formulas and percents	pg. 173 Q1-5 (create more questions)
Nov-5	STAFF DEVELOP	NO SCHOOL	

Nov-8		CHAPTER 6 REVIEW	pg. 175 Q1-35
Nov-9		CHAPTER 6 TEST	
Nov-10		CHAPTER 6 Test Corrections	
Nov-11		7-1 Number line and integers	pg. 182 Q1-30
Nov-12		7-2/7-3 Comparing integers - greater, less than	pg. 185 Q1-20, pg. 187 Q1-20
Nov-15		Flex Day	
Nov-16		7-4 Even and Odd integers	pg. 189 Q1-20
Nov-17		7-5/7-6 Adding integers	pg. 191 Q1-20, pg. 193 Q1-15
Nov-18		7-7 Subtracting integers	pg. 196 Q1-24
Nov-19		7-8/7-9 Multiplying integers	pg. 199 Q1-30, pg. 201 Q1-15
Nov-22	THANKSGIVING	NO SCHOOL	
Nov-23	THANKSGIVING	NO SCHOOL	
Nov-24	THANKSGIVING	NO SCHOOL	
Nov-25	THANKSGIVING	NO SCHOOL	
Nov-26	THANKSGIVING	NO SCHOOL	
Nov-29		7-10 Dividing integers	pg. 203 Q1-30
Nov-30		CHAPTER 7 REVIEW	pg. 205 Q1-50
Dec-1		CHAPTER 7 TEST	
Dec-2		CHAPTER 7 Test Corrections	
Dec-3		8-1 Exponents	pg. 211 Q1-25
Dec-6		8-2/8-3 Multiplying and Dividing with Exponents	pg. 213 Q1-25, pg. 215 Q1-25
Dec-7		8-4 Squares	pg. 217 Q1-15
Dec-8		8-5 Cubes	pg. 219 Q1-15
Dec-9		8-6 Square Roots	pg. 222 Q1-15
Dec-10		8-7 Irrational Numbers and Square Roots	pg. 225 Q1-10

Dec-13		8-8 Pythagorean Theorem	pg. 228 Q1-10
Dec-14		8-9 More About Triangles	pg. 231 Q1-5
Dec-15		CHAPTER 8 REVIEW	pg. 233 Q1-30
Dec-16		CHAPTER 8 TEST	
Dec-17	EARLY RELEASE	HALF DAY SCHEDULE	
Dec-20	Winter break	No School	
Dec-21	Winter break	No School	
Dec-22	Winter break	No School	
Dec-23	Winter break	No School	
Dec-24	Winter break	No School	
Dec-27	Winter break	No School	
Dec-28	Winter break	No School	
Dec-29	Winter break	No School	
Dec-30	Winter break	No School	
Dec-31	Winter break	No School	
Jan-3		CHAPTER 8 Test Corrections	
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	MLK DAY	NO SCHOOL	
Jan-18		EOC Practice Test Corrections	
Jan-19	EOC	HALF DAY SCHEDULE	
Jan-20	EOC	HALF DAY SCHEDULE	
Jan-21	EOC	HALF DAY SCHEDULE	

MWP1 SEM 2 SUGGESTED SYLLABUS 2010-2011

Date	Event	Lecture/Discussion Topics	Assignments
Jan-24	Dist. In-service	<i>NO SCHOOL</i>	
Jan-25		9-1/9-2 Perimeters of Polygons	pg. 240 Q1-10, pg. 244 Q1-10
Jan-26		9-3 Perimeters of irregular Polygons	pg. 248 Q1-10
Jan-27		9-4 Areas of rectangles and squares	pg. 251 Q1-20
Jan-28		9-5 Areas of Triangles	pg. 255 Q1-10
Jan-31		9-6 Areas of Trapezoids and Parallelograms	pg. 257 Q1-10
Feb-1		9-7 Areas of Irregular Polygons	pg. 259 Q1-5
Feb-2		9-8 Volume	pg. 262 Q1-10
Feb-3		9-9 Circumference of Areas and Circles	pg. 266 Q1-15
Feb-4		9-10 Volumes of Cylinders and Spheres	pg. 269 Q1-10
Feb-7		CHAPTER 9 REVIEW	pg. 271 Q1-25
Feb-8		CHAPTER 9 TEST	
Feb-9		CHAPTER 9 TEST CORRECTIONS	
Feb-10	<i>FLEX DAY</i>	<i>FLEX DAY FLEX DAY FLEX DAY</i>	
Feb-11	<i>FLEX DAY</i>	<i>FLEX DAY FLEX DAY FLEX DAY</i>	
Feb-14		10-1/10-2 Graphing Equalities and Inequalities	pg. 276 Q1-10, pg. 280 Q1-15
Feb-15		10-3/10-4 Graphing solutions of Inequalities	pg. 283 Q1-10, pg. 285 Q1-15
Feb-16		10-5/10-6 Coordinate system, graphing (x, y)	pg. 289 Q1-20, pg. 291 Q1-15
Feb-17		<i>FLEX DAY</i>	<i>FLEX DAY FLEX DAY FLEX DAY</i>
Feb-18		10-7 Determining the points of a line	pg. 294 Q1-6
Feb-21	<i>President's Day</i>	<i>NO SCHOOL</i>	
Feb-22		10-8 Graphing lines	pg. 297 Q1-10
Feb-23		10-9 Slopes of lines	pg. 299 Q1-10
Feb-24		10-10 Formula for Slope	pg. 301 Q1-15
Feb-25		10-11 Slope-Intercept form of a line	pg. 307 Q1-20

Feb-28		CHAPTER 10 REVIEW	pg. 309 Q1-35
Mar-1		CHAPTER 10 TEST	
Mar-2		CHAPTER 10 TEST CORRECTIONS	
Mar-3	<i>FLEX DAY</i>	<i>FLEX DAY FLEX DAY FLEX DAY</i>	
Mar-4		11-1 Angles and angle measurement	pg. 315 Q1-15
Mar-7		11-2 Identifying and Classifying angles	pg. 317 Q1-15
Mar-8		11-3 Complementary and Supplementary angles	pg. 321 Q1-20
Mar-9		11-4 Angle measurement in a Triangle	pg. 325 Q1-14
Mar-10		11-5 Naming Triangles	pg. 327 Q1-10
Mar-11		11-6/11-7 Congruent and Similar Triangles	pg. 329 Q1-5, pg. 331 Q1-10
Mar-14		11-8 Graphing Lines	pg. 333 Q1-10
Mar-15		11-10 Polygons and Diagonals	pg. 337 Q1-15
Mar-16		CHAPTER 11 REVIEW	pg. 339 Q1-30
Mar-17		CHAPTER 11 TEST	
Mar-18		CHAPTER 11 TEST CORRECTIONS	
Mar-21	<i>FLEX DAY</i>	<i>FLEX DAY FLEX DAY FLEX DAY</i>	
Mar-22		12-1/12-2 Bar Graphs and Circle Graphs	pg. 345 Q1-10, pg. 347 Q1-10
Mar-23		12-2 Circle Graphs	supplemental activity
Mar-24		12-3 Frequency Tables	pg. 349 Q1-5
Mar-25	<i>Early Release</i>	<i>Half Day Schedule</i>	
Mar-28	<i>Spring Break</i>	<i>NO SCHOOL</i>	
Mar-29	<i>Spring Break</i>	<i>NO SCHOOL</i>	
Mar-30	<i>Spring Break</i>	<i>NO SCHOOL</i>	
Mar-31	<i>Spring Break</i>	<i>NO SCHOOL</i>	
Apr-1	<i>Spring Break</i>	<i>NO SCHOOL</i>	

Apr-4		12-4 Mean	pg. 351 Q1-15
Apr-5		12-5 Median	pg. 353 Q1-5 (create more questions)
Apr-6		12-6 Mode	pg. 355 Q1-10
Apr-7		12-7 Range	pg. 357 Q1-10
Apr-8		12-8 Box and Whisker Plots	pg. 359 Q1-10
Apr-11		12-9 Probability Fraction	pg. 361 Q1-5 (create more questions)
Apr-12		12-10 Fundamental Counting Principle	pg. 363 Q1-5 (create more questions)
Apr-13		CHAPTER 12 REVIEW	pg. 365 Q1-15
Apr-14		CHAPTER 12 TEST	
Apr-15		CHAPTER 12 TEST CORRECTIONS	
Apr-18		Dale Seymour Materials: Solving add / sub	
Apr-19		Dale Seymour Materials: Solving add / sub	
Apr-20		Dale Seymour Materials: Solving mult / div	
Apr-21		Dale Seymour Materials: Solving mult / div	
Apr-22		TEST: Solving add, sub, mult, div	
Apr-25		Dale Seymour Materials: Solving two step	
Apr-26		Dale Seymour Materials: Solving fractions one step	suggestion: avoid reciprocal, rationalize first then solve
Apr-27		Dale Seymour Materials: Solving fractions two step	
Apr-28		Dale Seymour Materials: Solving fractions two step	
Apr-29		TEST: Solving two step with fractions	
May-2		Dale Seymour Materials: Collect like terms first same side	
May-3		Dale Seymour Materials: Collect like terms first same side	
May-4		Dale Seymour Materials: Collect like terms first both sides	
May-5		Dale Seymour Materials: Collect like terms first both sides	
May-6		TEST: All Solves	

May-9	<i>FLEX DAY</i>	<i>FLEX DAY FLEX DAY FLEX DAY</i>	
May-10		Translate and Solve	
May-11		Translate and Solve	
May-12		Translate and Solve	
May-13		TEST: Translate and Solve	
May-16		EOC Review	
May-17		EOC Review	
May-18		EOC Review	
May-19		EOC Review	
May-20		EOC Review	
May-23		EOC Review	
May-24		EOC Review	
May-25		EOC Review	
May-26		EOC Review	
May-27		EOC Review	
May-30	Memorial Day	<i>NO SCHOOL</i>	
May-31		EOC Review	
Jun-1	<i>EOC</i>	<i>Half Day Schedule</i>	
Jun-2	<i>EOC</i>	<i>Half Day Schedule</i>	
Jun-3	<i>EOC</i>	<i>Half Day Schedule</i>	