



# Independent School District of Boise City Curriculum Map

## Accelerated Math 7 Mathematics

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Performance Objectives... ..	4
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### Scope and Sequence Summary

Math Vocabulary	<i>Ongoing</i>
Introduction into Algebra	September
The Decimal System	Sept-Oct
Positive & Negative Numbers	October
Rational Numbers & Place Value	November
Equations & Inequalities	November
Geometry	Dec-Jan
Ratio, Proportion, & Percent	Jan-Feb
The Coordinate Plane	Feb-March
Areas & Volumes	March-Apr
Square Roots & Right Triangles	April
Probability	Apr-May
Statistics	May
Polynomials	May

<u>Test</u>	<u>Window</u>
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AccelMath 7 EOC	End of 1 <sup>st</sup> Semester
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ISAT	Late Apr.- Early May
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Accel Math 7 EOC	End of 2 <sup>nd</sup> Semester
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**Scope and Sequence  
Accelerated Math 7  
Mathematics: Structure and Method  
Course 2**

**Semester 1, Chapters 1 – 6.5 ( no calculator)**

Emphasize	Cover	Exclude (Optional)
1-1, 1-2, 1-3, 1-4, 1-5, 1-6, 1-7, 1-8		
2-1, 2-2, 2-3, 2-5, 2-6	2-4	
3-1, 3-2, 3-3, 3-4, 3-5, 3-6	3-7	
4-1, 4-2, 4-3, 4-4, 4-5, 4-6, 4-7		
5-2, 5-3, 5-4, 5-5, 5-6, 5-7, 5-8, 5-9	5-1	
*6-1, 6-2, 6-3, 6-4, 6-5		

\*Note-only sections 1-5 of Chapter 6 need to be covered during first semester

**Semester 2, Chapters 6.6 – 13 (yes calculator)**

Emphasize	Cover	Exclude (Optional)
6-6, 6-7, 6-8, 6-9		
7-1, 7-2, 7-3, 7-4, 7-5, 7-6, 7-7, 7-8, 7-9	7-8 Circle Graph	
8-2, 8-3	8-1, 8-5	8-4, 8-6
9-1, 9-2, 9-3, 9-5, 9-7	9-4, 9-6	9-8, 9-9
10-1, 10-4, 10-5		10-2, 10-3, 10- 6, 10-7, 10-8
11-1, 11-2, 11-3	11-4	11-5, 11-6, 11- 7, 11-8, 11-9
12-1, 12-2, 12-3, 12-5, 12-6	12-4	12-7, 12-8
13-1, 13-2, 13-3, 13-4		13-5, 13-6

## **Accelerated Math 7**

### **Materials Needed for Common Final (EOC)**

**1<sup>st</sup> Semester**- Protractor and Compass

**2<sup>nd</sup> Semester** – Calculator

<b>Accelerated Math 7 Performance Objectives 1<sup>st</sup> Semester Checklist</b>		<b>Section in text</b>
Convert units within system of measurements using metric and U.S. customary.		Chart xv
Simplify an algebraic expression using substitution.		1-1, 1-2, 1-3, 2-1 3-4
Simplify and solve equations using inverse operations		1-5
Use order of operations to simplify an expression.		1-2, 2-1, 2-5
Understand the relationships of greater than, less than, equal, and approximately equal, for real numbers and absolute values.		1-4, 2-2, 3-1,
Order and compare rational numbers.		1-4, 2-2, 2-3, 3-1 3-2, 4-3
Translate a verbal sentence into an equation or inequality.		1-6, 1-7
Define a variable, write an equation, and solve.		1-8, 2-6, 5-8, 5-9
Evaluate expressions with exponents.		2-1, 3-7
Use distributive property to simplify an expression.		2-4, 3-5
Understand and organize integers according to order.		3-1
Accurately add, subtract, multiply, and divide integers.		3-3, 3-4, 3-5, 3-6
Evaluate powers that have negative and zero exponents.		3-7
Recognize the placement of real numbers on a number line.		4-1, 4-2
Find prime factorization of a number.		4-2
Identify equivalent fractions: mixed number, improper, and simplify.		4-2
Find the least common multiple and greatest common factor for numbers and variables.		4-2, 4-3
Add, subtract, multiply, and divide rational numbers (fractions).		4-4, 4-5, 4-6
Identify the reciprocal of a number.		4-6
Convert fractions to repeating or terminating decimals, or decimals to fractions		4-7
Simplify an algebraic expression.		5-2,
Simplify and solve one-step equations.		5-1, 5-2, 5-3, 5-4
Solve one-step rational equations by multiplying by the reciprocal.		5-3

Solve multi-step rational equations and inequalities, illustrating the use of combining like terms, the distributive property, and variables on both sides.	5-5, 5-7
Identify, graph, and solve an inequality over the set of real numbers on a number line.	5-7
Translate an equation into problems, and/or problems into equations	5-8, 5-9
Identify points, lines, and planes	6-1
Apply formulas for perimeter and circumference, for polygons and circles.	6-2, 6-8
Approximate an angle measure and classify it.	6-3, 6-4
Solve an equation illustrating use of supplementary angles, complementary angles, and the sum of the angles of a triangle.	6-4, 6-6
Given parallel lines intersected by a transversal, identify corresponding, vertical, and supplementary angles.	6-5

	<b>Accelerated Math 7 Performance Objectives 2<sup>nd</sup> Semester Checklist</b>	<b>Section in test</b>
	Identify triangles by their sides and angles.	6-6
	Identify quadrilaterals by sides and angles	6-7
	Identify transformations including translations, reflections, and rotations.	6-9
	Identify congruent polygons by corresponding angles and sides.	6-9
	Determine rates and solve real life situations using rates	7-2
	Convert decimals, fractions, and percents interchangeably.	7-4
	Determine a percent from a ratio in a real-life situation.	7-4, 7-5
	Recognize and determine percent of change for a given situation.	7-6
	Use percent to solve real-life solutions after a discount or increase.	7-7
	Solve proportions.	7-1, 7-2, 7-8
	Solve percent equations.	7-5, 7-8, 7-9
	Determine simple interest	7-9
	Plot points on a coordinate plane, identify polygons formed by connecting points, and be able to translate a set of given points.	8-1
	Determine whether an ordered pair is a solution of a given line.	8-2
	Determine whether an ordered pair is a solution of a given line.	8-2
	Graph a linear equation using a T-chart and x- and y-intercepts.	8-2, 8-3
	Apply formulas to find the areas of polygons and circles	9-1, 9-2, 9-3
	Identify a solid from folding a net	9-5, 9-7
	Apply formulas for surface area and volume of rectangular solids.	9-5, 9-6, 9-7
	Investigate right triangle geometry using the Pythagorean Theorem	10-4
	Given similar figures, use ratio (scale factor) to find the length of the corresponding sides.	10-5
	Use counting techniques to determine permutations.	11-1
	Demonstrate understanding of the prediction and counting of probable outcomes based on data.	11-2
	Make a prediction based on simple probabilities.	11-3, 11-4
	Conduct statistical experiments and interpret results using tables, charts, or graphs.	11-3, 11-4
	Create a bar graph or a line graph to represent data.	12-1, 12-2
	Find the mean, median, and mode of a set of integers.	12-3
	Represent a set of data in a table and as a mathematical relationship.	12-1, 12-2, 12-4
	Use given data to create a stem-and-leaf plot and box whisker plot.	12-5, 12-6
	Simplify, subtract, multiply, divide polynomials.	13-2, 13-3, 13-4

## 2010-2011 Accel Math 7 --Suggested Syllabus => Semester 1

Date	Event	Lecture/Discussion Topics	Vocabulary
Aug-23			
Aug-24			
Aug-25	1/2 Day	Class Admin	
Aug-26		Class Admin	
Aug-27	Chapter 1	1-1: Mathematical Expressions	numerical expression, variable, variable expression, terms
Aug-30		1-2: Order of Operations	
Aug-31		1-3: Equations	equation, open sentence, replacement set, solution
Sep-1		1-4: Inequalities	inequalities, coordinate, origin
Sep-2		1-5: Inverse Operations	inverse operation
Sep-3		Quiz/Activity	
Sep-6	Labor Day	No School	
Sep-7		1-6: Writing Expressions for Word Phrases	twice, doubled, consecutive, preceding
Sep-8		1-7: Equations & Inequalities for Word Sentences	
Sep-9		(2 days)	
Sep-10		1-8: Problem-Solving Strategies	
Sep-13		(2 days)	
Sep-14		Review	
Sep-15		Review	
Sep-16		Test 1	
Sep-17	Chapter 2	2-1: Exponents	
Sep-20		2-2: The Decimal System	base, value/place value, decimal number, expanded form
Sep-21		2-3: Rounding	rounding, estimate
Sep-22		Quiz/Activity	
Sep-23		2-4: Basic Properties	
Sep-24		2-5: Simplifying Expressions	
Sep-27		(2 days)	
Sep-28		2-6: Problem-Solving Model	
Sep-29		Review	
Sep-30		Review	
Oct-1		Test 2	
Oct-4	Chapter 3	3-1: The Integers	positive and negative integers
Oct-5		3-2: Decimals on the Number Line	
Oct-6		3-3: Adding Positive and Negative Numbers	
Oct-7	State Workshop	No School	
Oct-8	State Workshop	No School	

Oct-11		3-4: Subtracting Positive and Negative Numbers	
Oct-12		(2 days)	
Oct-13		Quiz/Activity	
Oct-14		3-5: Multiplying Positive and Negative Numbers	
Oct-15		3-6: Dividing Positive and Negative Numbers	
Oct-18		(2 days)	
Oct-19		3-7: Negative Integers as Exponents	
Oct-20		Review	
Oct-21		Review	
Oct-22		Test 3	
Oct-25	Chapter 4	4-1 Positive and Negative Fractions	Review prime factorization on p. 109
Oct-26		4-2 Equivalent Fractions	
Oct-27		4-3: Least Common Denominator	
Oct-28		4-4: Adding/Subtracting Fractions	
Oct-29	End of 1st quarter	Quiz/Activity	
Nov-1		Review	
Nov-2		4-5: Multiplying Fractions	
Nov-3		4-6: Dividing Fractions	
Nov-4		Practice	
Nov-5	No School	Parent Conferences	
Nov-8		4-7: Fractions and Decimals	
Nov-9		Review	
Nov-10		Test 4	
Nov-11	Chapter 5	5-1: Properties of Inequality	
Nov-12		5-2: Equivalent Equations	equivalent equations
Nov-15		5-3: Solving Equations w/ Addition & Subtraction	
Nov-16		5-4: Solving Equations w/ Multiplication & Division	
Nov-17		Quiz/Activity	
Nov-18		5-5: Using Several Transformations	
Nov-19		Practice	
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		5-6: Equivalent Inequalities	
Nov-30		flex day	
Dec-1		flex day	
Dec-2		5-7: Solving Inequalities by Sev. Transformations	

Dec-3		5-8: Translating Equations into Problems	
Dec-6		5-9: Translating Problems into Equations	
Dec-7		Review	
Dec-8		Review	
Dec-9		Test 5	
Dec-10	Chapter 6	6-1: Points, Lines, and Planes	point, line, segment, endpoints, congruent, midpoint, ray, plane, coplanar
Dec-13		6-2: Circles	circle, center, radius, chord, diameter, arc, semicircle, circumference
Dec-14		6-3: Angles	angle, vertex, sides, protractor, congruent angles, adjacent angles, bisect, angle bisector
Dec-15		Practice	
Dec-16		6-4: Special Angles	perpendicular, complementary, supplementary, vertical angles
Dec-17	Early Release	Practice	
Dec-20	Holiday Break		
Dec-21	Holiday Break		
Dec-22	Holiday Break		
Dec-23	Holiday Break		
Dec-24	Holiday Break		
Dec-27	Holiday Break		
Dec-28	Holiday Break		
Dec-29	Holiday Break		
Dec-30	Holiday Break		
Dec-31	Holiday Break		
Jan-3		6-5: Parallel Lines	parallel lines, alternate interior angles, corresponding angles
Jan-4		(2 days)	
Jan-5		Review	
Jan-6		Review	
Jan-7		Quiz/Activity	
Jan-10		EOC Review	
Jan-11		EOC Review	
Jan-12		EOC Review	
Jan-13		EOC Review	
Jan-14		EOC Review	
Jan-17	MLKing Holiday	No School	
Jan-18		EOC Review	
Jan-19	<b>Semester Test</b>		
Jan-20	<b>Semester Test</b>		
Jan-21	<b>Semester Test</b>		

## Accel Math 7 - Suggested Syllabus => Semester 2

Date	Event	Lecture/Discussion Topics	Vocabulary
Jan-24	District In-service	No School	
Jan-25	Chapter 6 (con't)	6-6: Triangles	vertex; obtuse, right, acute, scalene, isosceles, equilateral triangles
Jan-26		(2 days)	
Jan-27		6-7: Special Quadrilateral	square, rectangle, rhombus, parallelogram, trapezoid, isosceles trapezoid
Jan-28		6-8: Polygons and Their Perimeters	
Jan-31		6-9: Congruent Polygons	
Feb-1		Review	
Feb-2		Test 6	
Feb-3	Chapter 7	7-1: Ratio and Proportion	terms, extremes, means
Feb-4		7-2: Problems-Solving Using Rates	rates, unit price
Feb-7		7-3: Scale Drawings	
Feb-8		7-4: Percents, Fractions, and Decimals	
Feb-9		7-5: Working With Percents	
Feb-10		Review	
Feb-11		Quiz/Activity	
Feb-14		7-6: Percent of Increase and Decrease	
Feb-15		7-7: Commissions, Discounts, Royalties	commission, royalty, discount, sale price, net price
Feb-16		Practice	
Feb-17		7-8: Percents and Proportions	
Feb-18		7-8 Circle Graphs p. 258	
Feb-21	President's Day	No School	
Feb-22		7-9: Interest	principal, annual rate, simple and compound interest
Feb-23		Review	
Feb-24		Test 7	
Feb-25	Chapter 8	8-1: The Coordinate Plane	origin, x & y-axis, ordered pair, quadrants, coordinates
Feb-28		8-2: Equations in Two Variables	***Emphasize standard form to slope intercept form! Stress $y=mx+b$
Mar-1		(2 days)	
Mar-2		8-3: Graphing Equations in the Coordinate Plane	x & y-intercept, linear equations
Mar-3		(2 days)	
Mar-4		Review	
Mar-7		Quiz/Activity	
Mar-8		8-4: Graphing a Systems of Equations	parallel lines

Mar-9		8-5: Problem-Solving Using Graphs	emphasize $m=\text{slope}$
Mar-10		8-6: Graphing Inequalities	Just introduce
Mar-11		Review	
Mar-14		Test 8	
Mar-15		9-1: Areas of Rectangles and Triangles	area, perimeter, base, height
Mar-16	Chapter 9	9-2: Areas of Quadrilaterals	
Mar-17		Practice	
Mar-18		9-3: Areas of Circles	circle: area and circumference
Mar-21		9-4: Areas of Symmetric Figures	line of symmetry
Mar-22		Practice	
Mar-23		Quiz/Activity	
Mar-24		9-5: Volumes of Prisms and Cylinders	solid, height, capacity, liters, milliliters
Mar-25	End of Quarter	Practice	
Mar-28	Spring Break		
Mar-29	Spring Break		
Mar-30	Spring Break		
Mar-31	Spring Break		
Apr-1	Spring Break		
Apr-4		9-6: Volumes of Pyramids and Cones	vertex, height of cones and pyramids
Apr-5		9-7: Surface Areas of Prisms and Cylinders	Get nets to fold (from 8th grade curriculum) Stress
Apr-6		Practice	bases, faces, surface area, lateral surface, lateral faces
Apr-7		Review	
Apr-8		Test 9	
Apr-11		10-1: Square Roots	perfect square, square root
Apr-12		10-3: Using a Square Root Table/Calculator	
Apr-13		10-4: The Pythagorean Theorem	hypotenuse, legs
Apr-14		(2 days)	
Apr-15		10-5: Similar Triangles	
Apr-18		(2 days)	
Apr-19		Review	
Apr-20		Test 10	
Apr-21	ISAT	This is different for each building...	
Apr-22	WINDOW	adjust accordingly.	
Apr-25	Chapter 11	11-1: Permutations	counting principle, permutation
Apr-26		11-2: Combinations	

Apr-27		11-3: The Probability of an Event	outcomes
Apr-28		11-4: Odds in Favor and Odds Against	
Apr-29		11-5 through 11-8 are optional	
May-2		Review	
May-3		Test 11	
May-4	Chapter 12	12-1/12-2: Bar Graphs and Line Graphs	data, statistics, legend, bar and double bar graph, line and double line graph
May-5		12-3: Statistical Measures	range, mean, median, mode
May-6		Practice	
May-9		12-4: Frequency Distributions	
May-10		12-5: Stem-and-Leaf Plots	
May-11		12-6: Box and Whisker Plot	
May-12		Review	
May-13		Test 12	
May-16	Chapter 13	13-1: Polynomial Expressions	coefficients, terms, degree
May-17		13-2: Adding and Subtracting Polynomials	add the opposite, like terms
May-18		(2 days)	
May-19		13-3: Multiplying and Dividing Polynomials	
May-20		13-4: Mult. & Div. A Polynomial by a Monomial	
May-23		Review/Quiz	
May-24		EOC Review	
May-25		EOC Review	
May-26		EOC Review	
May-27		EOC Review	
May-30	Memorial Day	No School	
May-31		EOC Review	
Jun-1	<b>Semester Test</b>		
Jun-2	<b>Semester Test</b>		
Jun-3	<b>Semester Test</b>	Last day of school	

# Accelerated Math 7

## Similar Problems List (EOC)

### Semester 1

Section	Page	Problems	Comments
			<b>Accel Math 7 sem 1</b>
<b>Chapter 1</b>	7	1-3	Written Exercises
	7	16-18	Written Exercises
	7	19-20, 23	Simplify using distributive property, do not solve.
	18	1-12	
	22	1-12	
	25	1-10	
<b>Chapter 2</b>	31	7	
	43	6-10, 17-31, 48	
	<b>46,47</b>	<b>23-31, 44-49</b>	
	49	9-16	
	57	15-16	Collect like terms
	<b>62,63</b>	<b>7-12</b>	
	<b>63</b>	<b>Self Test B #1-9</b>	Simplify using distributive property
	68	2, 5, 8	Substitute and evaluate
<b>Chapter 3</b>	73	11-12	
	74	25-30	
	77	7	
	82	29-31	
	<b>85</b>	<b>25-32</b>	
	<b>86</b>	<b>1-4</b>	
	94	4-10	
	96	11-13, 41-43	
	99	9-15	
<b>Chapter 4</b>	109	1-4	
	112	1-10	Written Exercises
	112	6-7	GCF only/Class Exercises
	113	11-15, 34-37, 51-56	
	116	1-5	
	119	1-8	<b>Class Exercises</b>
	<b>120,121</b>	<b>1-6</b>	
	124	9-16	
	128	11-13	
	129	30-33	
<b>Chapter 5</b>	147	10-12,17-19	
	151	1-12	
	154	1-12	
	157	7-16, 27-30	
	163	1-4	Chalkboard examples, right column
	161	5-15	
	165	1-4	
	<b>173</b>	<b>9-12</b>	
<b>Chapter 6</b>	<b>198</b>	<b>1-6</b>	
	201	1-2, 3-8	

Accelerated Math 7  
 Similar Problems List (EOC)  
 Semester 2

Section	Page	Problems	Comments
<b>Chapter 4</b>	109	23-27	
<b>Chapter 5</b>	154	29-32	
<b>Chapter 6</b>	189	7-10	
	206	1-6	Written Exercises
	214	5-8	Class Exercises
<b>Chapter 7</b>	232	15-18	
	233	1-4	Problems
	233	5-6	Problems
	243	1-8	Written Exercises
	243	25-34	Written Exercises
	244	1-6	Find percent
	246	1-18	Written Exercises
	250	1-3	
	251	4	
	<b>258-259</b>	<b>9-13</b>	<b>Measure of the angles and find percent and degrees</b>
	<b>261-262</b>	<b>1-7</b>	<b>simple interest-total to be repaid</b>
<b>Chapter 8</b>	273	13-17	
	274	19-22	
	275	23-24	
	278	5-12	
	279	24-27	
	282	10-18,34-39	
<b>Chapter 9</b>	308	3	
	309	7-8	
	<b>311</b>	<b>5, 7</b>	
	314	1, 5-6	Written Exercises
	318	1-4	
	323	7-9	
	324	10,11	
	328	1-6	
	337	1-4	
	338	11-12	Identify the figure from the net
Chapter 10	360	9-12	
	366	14-15	
	367	1, 2, 4	
	371	10	
	371	11-12	
chapter 11	399	5-6	
	406	1-4	
<b>chapter 12</b>	443	11	
	448	9	
	451	1-8	Written Exercises
	460	1-5	Class Exercises
chapter 13	478	5-7	
	478	8, 12	
	480	1-6	
	481	7-12	
	483	1-8	