

## Scope and Sequence

### Basic Algebra A, B, C, D

Overview: Successful completion of Basic Algebra A, B, C, and D (grade of “D” or higher) meets the State of Idaho’s high school graduation requirements of at least one year of Algebra. The course covers topics of evaluating expressions, using function notation, solving linear and quadratic equations graphing linear, quadratic and exponent functions, and other topics of a first year algebra course.

**Book: Algebra Concepts and Applications @2008**

**Glencoe McGraw-Hill**

### Basic Algebra A

#### Chapters 1, 2, and 3

#### Chapter 1

Section	Topic	Common Core State Standards
1-1	Writing Expressions and Equations	A.SSE.1a, A.SSE.2
1-2	Order of Operations	A.SSE.1b, A.SSE.2
1-3	Commutative and Associative Properties	A.SSE.1b, A.SSE.2
1-4	Distributive Property	A.SSE.1b, A.SSE.2
1-5	A Plan for Problem Solving	A.SSE.1b, A.SSE.2
1-6	Collecting Data	A.SSE.1b, A.SSE.2
1-7	Statistics: display and interpreting data	S.ID.1

#### Chapter 2

Section	Topic	Common Core State Standards
2-1	Graphing Integers on a Number Line	N.RN.1
2-2	The Coordinate Plane	F.IF.7a
2-3	Adding Integers	N.RN.1
2-4	Subtracting Integers	N.RN.1
2-5	Multiplying Integers	N.RN.1
2-6	Dividing Integers	N.RN.1

#### Chapter 3

Section	Topic	Common Core State Standards
3-1	Rational Numbers	N.RN.1
3-2	Adding and Subtracting Numbers	N.RN.1
3-3	Mean, Median, Mode and Range	N.RN.1
3-4	Equations	A.CED.1, A.REL.3
3-5	Solving Equations by Using Models	A.REL.1, A.REL.3
3-6	Solving Addition and Subtraction Equations	A.REL.1, A.REL.3
3-7	Solving Equations Involving Absolute Value	A.REL.1, A.REL.3

## Basic Algebra B

### Chapters 4, 5, and 6

#### Chapter 4

Section	Topic	Common Core State Standards
4-1	Multiplying Rational Numbers	N.RN.1
4-2	Counting Outcomes	S.ID.5
4-3	Dividing Rational Numbers	N.RN.1
4-4	Solving Multiplication and Division Equations	A.REL.1, A.REL.3
4-5	Solving Multi-Step Equations	A.REL.1, A.REL.3
4-6	Variables on Both Sides	A.REL.1, A.REL.3
4-7	Grouping Symbols	A.REL.1, A.REL.3

#### Chapter 5

Section	Topic	Common Core State Standards
5-1	Solving Proportions	A.REL.1, A.REL.3
5-2	Scale Drawings and Models	A.REL.1, A.REL.3
5-3	The Percent Proportion	N.Q.1, A.REL.3
5-4	The Percent Equation	N.Q.1, A.REL.3
5-5	Percent of Change	N.Q.1, A.REL.3
5-6	Probability and Odds	S.CP.1
5-7	Compound Events	S.CP.6

#### Chapter 6

Section	Topic	Common Core State Standards
6-1	Relations	A.REL.10, F.IF.1
6-2	Equations as Relations	A.REL.10, F.IF.1
6-3	Graphing Linear Relations	A.REL.10, F.IF.1
6-4	Functions	F.IF.1, F.IF.2
6-5	Direct Variation	A.REL.10, F.IF.7a
6-6	Inverse Variation	A.REL.10, F.IF.7a

## Basic Algebra C

### Chapters 7, 8, and 9

#### Chapter 7

Section	Topic	Common Core State Standards
7-1	Slope	F.IF.6, F.LE.1a
7-2	Writing Equations in Point-slope form	F.IF.2, F.LE.2
7-3	Writing equations in Slope-intercept form	F.BF.1, F.LE.2
7-4	Scatter Plots	S.ID.6a, S.ID.6c
7-5	Graphing Linear Equations	F.IF.7a, S.ID.7
7-6	Families of Linear Graphs	F.IF.7a, S.ID.7
7-7	Parallel and Perpendicular lines	F.IF.2, S.ID.6c

#### Chapter 8

Section	Topic	Common Core State Standards
8-1	Powers and Exponents	A.SSE.2, F.IF.8b
8-2	Multiplying and Dividing Powers	A.SSE.2, F.IF.8b
8-3	Negative Exponents	A.SSE.2
8-4	Scientific Notation	A.SSE.2
8-5	Square Roots	N.RN.1
8-6	Estimating Square Roots	N.RN.1
8-7	The Pythagorean Theorem	N.RN.1

#### Chapter 9

Section	Topic	Common Core State Standards
9-1	Polynomials	A.SSE.1a
9-2	Adding and Subtracting Polynomials	A.APR.1
9-3	Multiplying a Polynomials by a Monomial	A.APR.1
9-4	Multiplying Binomials	A.APR.1
9-5	Special Products	A.APR.1

## Basic Algebra D

### Chapters 10, 12, and 13

#### Chapter 10

Section	Topic	Common Core State Standards
10-1	Factors	A.SSE.2
10-2	Factoring Using the Distributive Property	A.SSE.2, A.SSE.3c
10-3	Factoring Trinomials: $x^2 + bx + c$	A.SSE.3a, A.REI.4b
10-4	Factoring Trinomials: $ax^2 + bx + c$	A.SSE.3a, A.REI.4b
10-5	Special Factors	A.SSE.3a, A.REI.1

#### Chapter 12

Section	Topic	Common Core State Standards
12-1	Inequalities and their Graphs	A.CED.1, A.REL.3
12-2	Solving Addition and Subtraction Inequalities	A.CED.1, A.REL.3
12-3	Solving Multiplication and Division Inequalities	A.CED.1, A.REL.3
12-4	Solving Multi-Step Inequalities	A.CED.1, A.REL.3
12-5	Solving Compound Inequalities	A.CED.1, A.REL.3
12-6	Solving Inequalities Involving Absolute Value	A.CED.1, A.REL.3
12-7	Graphing Inequalities in Two Variables	A.CED.1, A.REL.12

#### Chapter 13

Section	Topic	Common Core State Standards
13-1	Graphing Systems of Equations	A.CED.1, A.REL.6
13-2	Solutions of Systems of Equations	A.CED.1, A.REL.6
13-3	Substitution	A.CED.1, A.REL.6
13-4	Elimination Using Addition and Subtraction	A.CED.2
13-5	Elimination Using Multiplication	A.CEI.5, A.REI.6
13-7	Graphing Systems of Inequalities	ACED.3, A.REI.6