

Lesson	Торіс	AZ Standards
1.1 Integers	A) Using Algebra Tiles to Model Integers	-
	B) Integers on a Number Line	6.NS.5, 6.NS.6.a,
1-1 Integers	C) Comparing and Ordering Integers	6.NS.6.c
	D) Absolute Value	
1-2 Integer Addition with	A) Using Algebra Tiles to Model Addition of Integers with the Same Sign	7.NS.1.a, 7.NS.1.b,
Tiles	B) Using Algebra Tiles to Model Addition of Integers with Different Signs	7.NS.1.d, 7.NS.3
1-3 Integer Addition with	A) Using Number Lines to Model Addition of Integers with Different Signs	7.NS.1.b, 7.NS.1.d,
Number Lines	B) Using Number Lines to Model Addition of Integers with the Same Sign	7.NS.3
1-4 Single-Digit Integer Addition	A) Adding One-Digit Integers	7.NS.1.b, 7.NS.1.d, 7.NS.3, 7.EE.3
	A) Using Algebra Tiles to Model Subtraction of Positive Integers	
1-5 Integer Subtraction with Tiles	B) Using Algebra Tiles to Model Subtraction of Integers with Different Signs	7.NS.1.c, 7.NS.1.d, 7.NS.3
	C) Using Algebra Tiles to Model Subtraction of Negative Integers	
1-6 Single-Digit Integer Subtraction	A) Subtracting One-Digit Integers	7.NS.1.c, 7.NS.1.d, 7.NS.3, 7.EE.3
1-7 Multi-Digit Integer	A) Adding Multi-Digit Integers	7.NS.1.a, 7.NS.1.b,
Addition and Subtraction	B) Subtracting Multi-Digit Integers	7.NS.1.c, 7.NS.1.d, 7.NS.3, 7.EE.3

Chapter 1 Integer Addition and Subtraction

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Chapter 2 Integer Operations

Lesson	Торіс	AZ Standards
2-1 Integer Multiplication	A) Patterns in Integer Multiplication	7.NS.2.a, 7.NS.2.c,
	B) Multiplying Integers	7.NS.3, 7.EE.3
2.2 Integer Division	A) Patterns in Integer Division	7.NS.2.b, 7.NS.2.c,
2-2 Integer Division	B) Dividing Integers	7.NS.3, 7.EE.3
2-3 Exponents	A) Powers with Natural Exponents	7.NS.2.a, 7.NS.2.c,
	A) Powers with Natural exponents	7.NS.3, 7.EE.3
2-4 Order of Operations	A) Order of Operations with Integers	7.NS.1.d, 7.NS.2.a,
	B) Evaluating Expressions with Variables	7.NS.2.c, 7.NS.3, 7.EE.3

Chapter 3 Rational Numbers

Lesson	Торіс	AZ Standards
	A) Prime and Composite Numbers	
	B) Prime Factorization	7
3-1 GCF and LCM	C) Greatest Common Factors	7.EE.3
	D) Least Common Multiples	
3-2 Equivalent Fractions	A) Equivalent Fractions	7.NS.2.b, 7.EE.2, 7.EE.3
3-3 Converting Fractions	A) Writing Fractions as Decimals	7.NS.2.d, 7.EE.2, 7.EE.3
and Decimals	B) Writing Decimals as Fractions	7.INS.Z.U, 7.EE.Z, 7.EE.S
	A) Rational Numbers on a Number Line	
3-4 Comparing and Ordering Rational	B) Comparing and Ordering Positive and Negative Decimals	7.EE.3
Numbers	C) Comparing and Ordering Positive and Negative Fractions	
3-5 Adding and	A) Using Integer Rules to Add and Subtract Fractions with Common Denominators	7.NS.1.b, 7.NS.1.c, 7.NS.1.d, 7.NS.3, 7.EE.3
Subtracting Fractions	B) Using Integer Rules to Add and Subtract Fractions with Different Denominators	
3-6 Multiplying and	A) Using Integer Rules to Multiply Fractions	7.NS.2.a, 7.NS.2.b,
Dividing Fractions	B) Using Integer Rules to Divide Fractions	7.NS.2.c, 7.NS.3, 7.EE.3
3-7 Operations with Rational Numbers	A) Comparing Rational Numbers	7.NS.1.b, 7.NS.1.c,
	B) Adding and Subtracting Rational Numbers	7.NS.1.d, 7.NS.2.a,
	C) Multiplying and Dividing Rational Numbers	7.NS.2.b, 7.NS.2.c,
	D) Order of Operations and Rational Numbers	7.NS.3, 7.EE.2, 7.EE.3

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Lesson	Торіс	AZ Standards
4-1 Representations of	A) Parts of Variable Expressions	
Algebraic Expressions	B) Using Algebra Tiles to Model Algebraic Expressions	7.EE.1
4-2 Operations and	A) Omitting Multiplication Symbols with Variables	
Variable Expressions	B) Coefficients	7.EE.1, 7.EE.2
4-3 Algebraic Expressions	A) Writing Variable Expressions	7.EE.1, 7.EE.2
	A) Commutative Property	
4-4 Properties of	B) Associative Property	7.EE.1, 7.EE.2
Numbers	C) Identity Property	
	D) Inverse Property	
4-5 Modeling the	A) Using Algebra Tiles to Multiply a Monomial and a Binomial	7 55 4
Distributive Property	B) Using Tables to Multiply a Monomial and a Binomial	7.EE.1
4-6 Distributive Property	A) Using the Distributive Property to Write Equivalent Expressions	7.EE.1, 7.EE.2
4-7 Simplifying Algebraic	A) Using Algebra Tiles to Combine Like Terms	
Expressions	B) Simplifying Expressions with Like Terms	7.EE.1, 7.EE.2

Chapter 4 Expressions and Properties



Lesson	Торіс	AZ Standards
5-1 Equations	A) Identifying Equations and Expressions	7.EE.4.a
	B) Writing Equations	
	C) Solutions of Equations	
5-2 Introduction to Bar	A) Showing One-Step Equations with Bar Models	
Models	B) Showing Two-Step Equations with Bar Models	7.EE.2, 7.EE.4.a
	A) Solutions of One-Step Equations in Bar Models	
5-3 Solving One-Step	B) Using Bar Models to Solve One-Step Addition Equations	
Equations with Bar Models	C) Using Bar Models to Solve One-Step Subtraction Equations	7.EE.4.a
	D) Using Bar Models to Solve One-Step Multiplication Equations	-
	A) Inverse Operation of Addition	
5-4 Solving One-Step	B) Solving One-Step Equations with the Subtraction Property of Equality	7.EE.4.a
Addition and Subtraction Equations	C) Inverse Operation of Subtraction	
	D) Solving One-Step Equations with the Addition Property of Equality	
	A) Inverse Operation of Multiplication	
5-5 Solving One-Step	B) Solving One-Step Equations with the Division Property of Equality	
Multiplication and	C) Inverse Operation of Division	7.EE.4.a
Division Equations	D) Solving One-Step Equations with the Division Property of Equality	
	A) Solutions of Two-Step Equations in Bar Models	
5-6 Solving Two-Step	B) Using Bar Models to Solve Two-Step Equations	7.EE.4.a
Equations	C) Solving Two-Step Equations	-
5-7 Solving Multi-Step Equations with Bar Models	A) Using Bar Models to Solve Multi-Step Equations with Variables on Both Sides	7.EE.4.a
	B) Using Bar Models to Solve Multi-Step Equations with the Distributive Property	
	C) Using Bar Models to Solve Multi-Step Equations with the Distributive Property and Variables on Both Sides	

Chapter 5 Solving Equations



Lesson	Торіс	AZ Standards
5-8 Solving Multi-Step Equations	A) Solving Multi-Step Equations	7.EE.4.a
	B) Solving Equations with Variables on Both Sides	
5-9 Solving Equations with Rational Numbers	A) Solving Equations with Grouping Symbols in the Numerator	7.EE.4.a
	B) Using the Multiplicative Inverse to Solve Equations	
	C) Solving Equations with Fractions	
	D) Solving Equations with Decimals	

Chapter 5 Solving Equations (cont.)

Chapter 6 Solving Inequalities

Lesson	Торіс	CCSS
	A) Reading and Writing Inequalities	
6-1 Inequalities	B) Solutions of Inequalities	7.EE.4.b
	C) Graphs of Inequalities	
	A) Writing Inequalities	
6-2 Solving One-Step Addition and Subtraction	B) Solutions of Inequalities	7.EE.4.b
Inequalities	C) Solving One-Step Inequalities by Adding or Subtracting on Both Sides	
6-3 Solving One-Step Multiplication and Division Inequalities	A) Solving One-Step Inequalities by Multiplying or Dividing Both Sides by a Positive Number	7.EE.4.b
	B) Solving One-Step Inequalities by Multiplying or Dividing Both Sides by a Negative Number	
6-4 Solving Multi-Step Inequalities	A) Solving Two-Step Inequalities	
	B) Solving Multi-Step Inequalities	7.EE.4.b
	C) Solving Inequalities with Variables on Both Sides	_



Chapter 7 Ratio, Proportion, and Similarity

Lesson	Торіс	AZ Standards
	A) Unit Rates	
7-1 Unit Rates	B) Unit Rates from Tables and Graphs	7.RP.1, 7.RP.2.b, 7.RP.2.d
	C) Unit Rates to Find Values	-
	A) Defining Proportions	
7-2 Proportions	B) Solving Proportions	7.RP.2.a, 7.RP.2.c, 7.RP.3
	C) Writing Proportions	
	A) Converting Units Within a Measurement System	7.RP.1, 7.RP.2.b, 7.RP.2.c, 7.RP.3
7-3 Rate Conversions	B) Converting Units Between Measurement Systems	
	C) Converting Rates	
7 4 Cincilerity	A) Angle Measures in Similar Triangles	7.RP.1. 7.RP.2.a, 7.RP.2.b, 7.RP.2.c, 7.RP.3
7-4 Similarity	B) Side Lengths in Similar Figures	
7-5 Scale	A) Determining Scale	7.RP.2.b, 7.RP.2.c, 7.RP.3,
	B) Using Scale	7.G.1

Chapter 8 Percents

Lesson	Торіс	AZ Standards
	A) Converting Between Fractions and Percents	
8-1 Fractions, Decimals, and Percents	B) Converting Between Decimals and Percents	7.EE.3
and recents	C) Using Division to Convert Fractions to Percents	
8-2 Proportions with Percents	A) Percent Proportions	7.RP.2.c, 7.RP.3
8-3 Proportions with Equations	A) Percent Equations	7.RP.2.c, 7.RP.3
8-4 Reasoning with	A) Mental Math to Find a Percent of a Number	7.NS.3, 7.EE.2, 7.EE.3
Percents	B) Estimating with Percents	
8-5 Percent Change	A) Amount of Change	7 55 2
	B) Percent Change	7.EE.2
8-6 Discounts and Markups	A) Discount	
	B) Markup	7.RP.3, 7.EE.2



Chapter 9 Graphs and Functions

Lesson	Торіс	AZ Standards
	A) Identifying Quadrants and Axes of Coordinate Planes	
9-1 Coordinate Plane	B) Graphing Points	6.NS.6.b, 6.NS.6.c
	C) Writing the Coordinates of Points	
	D) Identifying Quadrants and Axes from Coordinates	
9-2 Relations	A) Representing Relations in Different Forms	8.F.1
9-2 Relations	B) Input and Output	0.F.1
	A) Independent and Dependent Variables	
9-3 Domain and Range	B) Domain and Range	8.F.1
	C) Relations and Functions	
	A) Graphs of Linear Functions	
	B) Using Linear Functions to Complete Tables	-
9-4 Linear Functions	C) Graphing Linear Functions	6.EE.9
	D) Writing Linear Functions	
	E) Identifying Intercepts	
9-5 Direct Variation Graphs	A) Graphs of Direct Variation	7.RP.2.b, 7.RP.2.c,
	B) Equations of Direct Variation	7.RP.2.d
9-6 Direct Variation	A) Tables of Direct Variation	
Tables and Equations	B) Direct Variation Equations and Coordinate Pairs	7.RP.2.b, 7.RP.2.c



Lesson	Торіс	AZ Standards
	A) Points	
10.1 Deinte and Lines	B) Lines	1.6.1
10-1 Points and Lines	C) Rays	4.G.1
	D) Segments	
	A) Parts of Angles	
10.2 Angles	B) Naming Angles	7.0 5
10-2 Angles	C) Adjacent Angles	7.G.5
	D) Angle Measures	
10-3 Complementary and	A) Complementary Angles	7.G.5
Supplementary Angles	B) Supplementary Angles	
10-4 Linear Pairs and	A) Linear Pairs	7.0.5
Vertical Angles	B) Vertical Angles	7.G.5
10-5 Lengths of Sides in Triangles	A) Relationship Among Side Lengths in a Triangle	
	B) Possible Lengths of Longest or Shortest Sides in a Triangle	7.G.2
10-6 Angle Measures in Triangles	A) Sum of the Measure of Interior Angles of a Triangle	7.6.2
	B) Finding a Missing Angle Measure in a Triangle	7.G.2

Chapter 10 Angles and Triangles



Chapter 11 Area, Surface Area, and Volume

Lesson	Торіс	AZ Standards
11-1 Area of Polygons	A) Areas of Triangles and Quadrilaterals	
	B) Solving Area Equations to Find Missing Measurements	7.G.6
	A) Parts of Circles	
11-2 Circumference of Circles	B) Relationship Between Radius and Diameter	7.G.4
	C) Circumference	
11-3 Area of Circles	A) Areas of Circles from Radius	7.G.4
11-3 Area of Circles	B) Areas of Circles from Diameter	7.0.4
	A) Bases of Solids	
11-4 Naming Three- Dimensional Solids	B) Naming Solids	7.G.3
	C) Cross Sections of Solids	
11-5 Surface Area of	A) Lateral Faces of Prisms	
Cylinders and Right	B) Surface Areas of Prisms	7.G.6
Prisms	C) Surface Areas of Cylinders	
11-6 Volume of Cylinders	A) Volumes of Prisms	7.G.6
and Right Prisms	B) Volumes of Cylinders	7.0.0
	A) Lateral Faces of Pyramids	
11-7 Surface Area of Right Pyramids	B) Slant Height	7.G.6
	C) Surface Areas of Pyramids	
11-8 Volume of Pyramids and Cones	A) Volumes of Pyramids	7.6
	B) Volumes of Cones	7.G.6

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Chapter 12 Probability

Lesson	Торіс	AZ Standards
12-1 Outcomes	A) Numbers that Represent Probability	7.SP.5
	B) Possible Outcomes	
	C) Events	
	D) Favorable Outcomes	
	E) Likely and Unlikely Events	
12-2 Experimental Probability	A) Equation for Experimental Probability	7.SP.6, 7.SP.7.b
	B) Experimental Probability of Single Event	
	C) Experimental Probability of Multiple Events	
12-3 Theoretical Probability	A) Equation for Theoretical Probability	7.SP.6, 7.SP.7.a, 7.SP.7.b
	B) Theoretical Probability of Single Event	
	C) Theoretical Probability of Multiple Events	
12-4 Compound Independent Events	A) Tree Diagrams and Outcomes of Independent Events	
	B) Tables and Outcomes of Independent Events	
	C) Using Multiplication to Count Outcomes for Independent Events	
12-5 Compound Dependent Events	A) Tree Diagrams and Outcomes of Dependent Events	
	B) Using Multiplication to Count Outcomes for Dependent Events	
12-6 Compound Probability	A) Probability Notation for Compound Events	7.SP.7.a
	B) Probability of Independent Events	
	C) Probability of Dependent Events	



Chapter 13 Data Analysis

Lesson	Торіс	AZ Standards
13-1 Populations, Samples, and Bias	A) Population	7.SP.1, 7.SP.2
	B) Samples	
	C) Data Sets from Random Representative Samples	
13-2 Making Inferences from Data	A) Samples and Conclusions	7.SP.1, 7.SP.2
	B) Samples and Predictions	
	C) Supporting Predictions and Conclusions	
13-3 Measures of Center	A) Mean	7.SP.4
	B) Median	
	C) Mean and Median of Same Data Set	
13-4 Measures of Variation	A) Range	7.SP.1, 7.SP.3, 7.SP.4
	B) MAD	
	C) Quartiles and IQR	
	D) Measures of Variation and Measures of Center	
13-5 Comparative Inferences	A) Dot Plots and Measures of Center and Variability	7.SP.1, 7.SP.2, 7.SP.3, 7.SP.4
	B) Mean as a Multiple of MAD	
	C) Making Statements about Data Sets from Measures of Center and Variability	