



Big Ideas Math - Modeling Real Life Alignments
Grade 6

1. Login to Exemplars Library: library.exemplars.com with your school e-mail and password
2. Select the **Grade 6 Chapter** you are working on:
 - [Chapter 1: Numerical Expressions and Factors](#)
 - [Chapter 2: Fractions and Decimals](#)
 - [Chapter 3: Ratios and Rates](#)
 - [Chapter 4: Percents](#)
 - [Chapter 5: Algebraic Expressions and Properties](#)
 - [Chapter 6: Equations](#)
 - [Chapter 7: Area, Surface Area, and Volume](#)
 - [Chapter 8: Integers, Number Lines, and the Coordinate Plane](#)
 - [Chapter 9: Statistical Measures](#)
 - [Chapter 10: Data Displays](#)
3. Once you are in the correct Unit, click on the task name, which is directly linked to the Exemplars Library where you can download a printer-friendly PDF and lesson planning sheet for the corresponding task.

**** Note:** You must be logged into the Exemplars Library to access the tasks in this document.

Big Ideas Math: Grade 6

Chapter 1: Numerical Expressions and Factors

Section	Common Core Standard	Exemplars Tasks
1.1: Powers and Exponents	6.EE.A.1 6.NS.B.4	Summer Camp (Formative) Floral Arrangements (Formative) Gears (Summative)
1.2: Order of Operations		
1.3: Prime Factorization		
1.4: Greatest Common Factor		
1.5: Least Common Multiple		

Big Ideas Math: Grade 6
Chapter 2: Fractions and Decimals

Section	Common Core Standard	Exemplars Tasks
2.1: Multiplying Fractions	6.NS.A.1 6.NS.B.2 6.NS.B.3	Dwarf Hamster Habitat (Formative) Moving to the Big Apple (Formative) Chocolate Shares (Summative)
2.2: Dividing Fractions		
2.3: Dividing Mixed Numbers		
2.4: Adding and Subtracting Decimals		
2.5: Multiplying Decimals		
2.6: Dividing Whole Numbers		
2.7: Dividing Decimals		

Big Ideas Math: Grade 6
Chapter 3: Ratios and Rates

Section	Common Core Standard	Exemplars Tasks
3.1: Ratios		
3.2: Using Tape Diagrams	6.RP.A.1	Height Dilemma (Formative)
3.3: Using Ratio Tables	6.RP.A.2	
3.4: Graphing Ratio Relationships	6.RP.A.3	Sink or Swim (Formative)
3.5: Rates and Unit Rates	6.RP.A.3a	
	6.RP.A.3b	Bake Sale (Summative)
3.6: Converting Measures	6.RP.A.3d	

Big Ideas Math: Grade 6
Chapter 4: Percents

Section	Common Core Standard	Exemplars Tasks
4.1: Percents and Fractions	6.RP.A.3 6.RP.A.3c 6.NS.C.7a 6.NS.C.7b	Eraser Boxes (Formative)
4.2: Percents and Decimals		M&M's (Formative)
4.3: Comparing and Ordering Fractions, Decimals, and Percents		Sneaker Sales (Summative)
4.4: Solving Percent Problems		

Big Ideas Math: Grade 6

Chapter 5: Algebraic Expressions and Properties

Section	Common Core Standard	Exemplars Tasks
5.1: Algebraic Expressions		
5.2: Writing Expressions	6.NS.B.4	Saving for the New Year (Formative)
5.3: Properties of Addition and Multiplication	6.EE.A.2a 6.EE.A.2b 6.EE.A.2c	Snack Bar (Formative)
5.4: The Distributive Property	6.EE.A.3	Frank and Stein (Summative)
5.5: Factoring Expressions	6.EE.A.4	

Big Ideas Math: Grade 6
Chapter 6: Equations

Section	Common Core Standard	Exemplars Tasks
6.1: Writing Equations in One Variable		
6.2: Solving Equations Using Addition or Subtraction	6.EE.B.5 6.EE.B.6 6.EE.B.7 6.EE.C.9	Fried Food Fest (Formative) Pattern Block Perimeters (Formative)
6.3: Solving Equations Using Multiplication or Division		 T-Shirt Time (Summative)
6.4: Writing Equations in Two Variables		

Big Ideas Math: Grade 6

Chapter 7: Area, Surface Area, and Volume

Section	Common Core Standard	Exemplars Tasks
7.1: Areas of Parallelograms	6.EE.A.2c 6.G.A.1 6.G.A.2 6.G.A.4	<p data-bbox="1271 743 1721 779">Fix That Foyer! (Formative)</p> <p data-bbox="1228 832 1765 868">Cordwood Dilemma (Formative)</p> <p data-bbox="1306 921 1686 956">Gift Wrap (Summative)</p>
7.2: Areas of Triangles		
7.3: Areas of Trapezoids and Kites		
7.4: Three-Dimensional Figures		
7.5: Surface Areas of Prisms		
7.6: Surface Areas of Pyramids		
7.7: Volumes of Rectangular Prisms		

Big Ideas Math: Grade 6

Chapter 8: Integers, Number Lines, and the Coordinate Plane

Section	Common Core Standard	Exemplars Tasks
8.1: Integers	6.NS.C.5	
8.2: Comparing and Ordering Integers	6.NS.C.6a 6.NS.C.6b 6.NS.C.6c	
8.3: Rational Numbers	6.NS.C.7a 6.NS.C.7b 6.NS.C.7c	Cafe in XY City (Formative)
8.4: Absolute Value	6.NS.C.7d	Preparing to Jam (Formative)
8.5: The Coordinate Plane	6.NS.C.8	Herding Cats (Summative)
8.6: Polygons in the Coordinate Plane	6.EE.B.5 6.EE.B.6	
8.7: Writing and Graphing Inequalities	6.EE.B.8	
8.8: Solving Inequalities	6.G.A.3	

Big Ideas Math: Grade 6
Chapter 9: Statistical Measures

Section	Common Core Standard	Exemplars Tasks
9.1: Introduction to Statistics	6.SP.A.1 6.SP.A.2 6.SP.A.3 6.SP.B.4 6.SP.B.5a 6.SP.B.5b 6.SP.B.5c	Environmentally Friendly Shopper (Formative)
9.2: Mean		
9.3: Measures of Center		More Screen Time (Formative)
9.4: Measures of Variations		Too Sweet (Summative)
9.5: Mean Absolute Deviation		

Big Ideas Math: Grade 6
Chapter 10: Data Displays

Section	Common Core Standard	Exemplars Tasks
10.1: Stem-and-Leaf Plots	6.SP.A.2 6.SP.B.4 6.SP.B.5c 6.SP.B.5d	Homework Survey (Formative)
10.2: Histograms		What is the Typical Price of a Vermont Ski Pass? (Formative)
10.3: Shapes of Distributions		Who is the Best? (Summative)
10.4: Choosing Appropriate Measures		
10.5: Box-and-Whisker Plots		