Common Core Standards Alignment Chart • Grade 6

Units	6.RP.1	6.RP.2	6.RP.3	6.NS.1	6.NS.2	6.NS.3	6.NS.4	6.NS.5	6.NS.6	6.NS.7	6.NS.8	6.EE.1	6.EE.2	6.EE.3	6.EE.4	6.EE.5	6.EE.6	6.EE.7	6.EE.8	6.EE.9	6.G.1	6.G.2	6.G.3	6.G.4	6.SP.1	6.SP.2	6.SP.3	6.SP.4	6.SP.5
Ratios & Proportional Relationships																													
Unit 1: Ratios & Equivalent Ratios	✔		✔																										
Unit 2: Rates		✔	✔																										
Unit 3: Understand Percent	✔		✔																										
Unit 4: Ratios, Decimals, and Percents	✔		✔																										
Unit 5: Find Percent of a Number			✔																										
The Number System																													
Unit 6: Divide Whole Numbers					✔																								
Unit 7: Add and Subtract Decimals						✔																							
Unit 8: Multiply and Divide Decimals						✔																							
Unit 9: Greatest Common Factor & Least Common Multiple							✔																						
Unit 10: Multiply Fractions				✔																									
Unit 11: Divide Fractions				✔																									
Unit 12: Understand Integers								✔		✔																			
Unit 13: Order Rational Numbers									✔	✔																			
Unit 14: Graph Points on the Coordinate Plane									✔		✔																		
Expressions & Equations																													
Unit 15: Exponents												✔																	
Unit 16: Order of Operations												✔																	
Unit 17: Algebraic Expressions													✔																
Unit 18: Properties of Operations														✔	✔														
Unit 19: Write and Solve Equations																✔	✔	✔											
Unit 20: Write and Solve Inequalities																✔			✔										
Unit 21: Graph Equations																				✔									
Geometry																													
Unit 22: Area of Polygons																					✔								
Unit 23: Draw Polygons on the Coordinate Plane																							✔						
Unit 24: Find Surface Area																								✔					
Unit 25: Find Volume																						✔							
Statistics & Probability																													
Unit 26: Mean, Median, and Mode																									✔	✔	✔		
Unit 27: Make and Interpret Dot Pots																												✔	✔
Unit 28: Make and Interpret Histograms																												✔	✔
Unit 29: Make and Interpret Box Plots																												✔	✔

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Practice at 3 Levels ● ● ●

Table of Contents

Using This Book

What Is the Common Core?

The Common Core State Standards are an initiative by the states to set shared, consistent, and clear expectations of what students are expected to learn, so teachers and parents know what they need to do to help them. The standards are designed to be rigorous and pertinent to the real world. They reflect the knowledge and skills that our young people need for success in college and careers.

What Are the Intended Outcomes of Common Core?

The goal of the Common Core Standards is to facilitate the following competencies.

Students will:
- demonstrate independence;
- build strong content knowledge;
- respond to the varying demands of audience, task, purpose, and discipline;
- comprehend as well as critique;
- value evidence;
- use technology and digital media strategically and capably;
- come to understand other perspectives and cultures.

What Does This Mean for You?

If your state has joined the Common Core State Standards Initiative, then as a teacher you are required to incorporate these standards into your lesson plans. Your students may need targeted practice in order to meet grade-level standards and expectations and thereby be promoted to the next grade. This book is appropriate for on-grade-level students as well as intervention, ELs, struggling readers, and special needs. To see if your state has joined the initiative, visit the Common Core States Standards Initiative website to view the most recent adoption map: http://www.corestandards.org/in-the-states.

What Does the Common Core Say Specifically About Math?

For math, the Common Core sets the following key expectations.

- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics.
- Use appropriate tools strategically.
- Attend to precision.
- Look for and make use of structure.
- Look for and express regularity in repeated reasoning.

How Does Common Core Mathematics Help My Students?

• **Mini-lesson for each unit** introduces Common Core math skills and concepts.

Common Core Standard(s) covered in the unit

Mini-lesson introduces or refreshes target skills and concepts

Quick and easy ongoing assessment opportunities

• **Four practice pages** with three levels of differentiated practice, and word problems follow each mini-lesson.

Level 1: Students who need extra support can start at the first practice page, which offers the most on-page support. This page often includes illustrations or model drawing to support every question.

Level 1

Level 2: The second level of practice offers streamlined support features for the first few problems (illustrations, model drawing, or an algorithm reminder for support).

Level 2

☆ Each practice page includes a bonus thinking-skills question so students can answer "How do you know?" to address Common Core Standards of Mathematical Practice and demonstrate their reasoning and understanding of the concept.

☆ **How do you write the ratio $\frac{3}{8}$ as a percent? Explain the steps you take.**

Bonus Thinking Skills question on each practice page

Level 3: The third practice page does not offer on-page support and depicts how students are expected to be able to perform at this grade level, whether in class or in testing.

Level 3

Word Problems: Each unit ends with a page of short-answer and multiple-choice word problems so students are challenged to marry their computation skills with their quantitative-reasoning and problem-solving skills and grow more familiar with the types of problems they will encounter on standardized tests.

Word Problem Page