

7th Grade First Six Weeks Curriculum

Within a well-balanced mathematics curriculum, the primary focal points at Grade 7 are using direct proportional relationships in number, geometry, measurement, and probability; applying addition, subtraction, multiplication, and division of decimals, fractions, and integers; and using statistical measures to describe data.

In this unit, students will explore numbers and operations. They will learn how to solve problems using a four-step plan. They will examine powers, exponents, square roots, the order of operations, and sequences. In addition, they will use the knowledge of algebraic variables, expressions, and properties to solve equations and make function tables. Students will find absolute values, compare and order integers, and add integers.

The following is a tentative schedule for the first six weeks. We will use the Glencoe Textbooks.

Week of August 25 th In Lesson 1-1 students will use a 4-step plan to solve problems and in Lesson 1-2 use powers and exponents
Week of September 2 nd Lessons 1-3 will cover squares and square roots, Lesson 1-4 Order of Operations, and Lesson 1-5 solve problems using the guess and check strategy.
Week of September 8 th In Lesson 1-6 students will evaluate simple Algebraic Expressions, Mid Chapter Quiz over Lessons 1-1 through 1-6, Lesson 1-7 solve equations using mental math, 1-8 use Commutative, Associative, Identity, and Distributive Properties to solve problems, and Lesson 1-9 describe relationships and extend terms in arithmetic sequence.
Week of September 15 th Continue Lesson 1-9, Lesson 1-10 make function tables and write equations, and review and take Chapter 1 Test.
Week of September 22 nd Lessons 2-1 read and write integers and find the absolute value of a number, Lesson 2-2 compare and order integers, Lesson 2-3 graph points on a coordinate plane, and Lesson 2-4 add integers.
Week of September 29 th Lesson 2-4 add integers, and take First Six Weeks Benchmark Exam.

7th Grade Math Second Six Weeks Syllabus

Within a well-balanced mathematics curriculum, the primary focal points at Grade 7 are using direct proportional relationships in number, geometry, measurement, and probability; applying addition, subtraction, multiplication, and division of decimals, fractions, and integers; and using statistical measures to describe data.

The following is a tentative schedule for the second six weeks. The Glencoe Textbook will be used along with a program called Hands on Equations during the fifth week of the six weeks.

Week of October 6 th Lesson 2-4 Model addition of integers and add integers Lesson 2-5 Model subtraction of integers and subtract integers Mid Chapter Quiz
Week of October 13 th Lesson 2-6 Use a problem solving strategy – looking for a pattern Lesson 2-7 Model multiplication of integers and multiply integers Lesson 2-8 Model division of integers and divide integers
Week of October 20 th Lesson 2-8 Model division of integers and divide integers Review and take Chapter 2 Test Lesson 3-1 Estimate Decimals Lesson 3-2 Model and multiply decimals (Lab)
Week of October 27 th Lesson 3-2 Model and multiply decimals Lesson 3-3 Multiply by powers of 10 Lesson 3-4 Model and divide decimals (Lab) Lesson 3-4 Model and divide decimals Mid-Chapter Quiz
Week of November 3 rd Lesson 3-5 Use a problem solving strategy – choosing the best method of computation Lesson 3-6 Measurement and the Metric System Lesson 3-7 Scientific Notation Review and take Chapter 3 Test
Week of November 10 th Review and take 2 nd Six Weeks Benchmark

7th Grade Math Third Six Weeks Syllabus

Within a well-balanced mathematics curriculum, the primary focal points at Grade 7 are using direct proportional relationships in number, geometry, measurement, and probability; applying addition, subtraction, multiplication, and division of decimals, fractions, and integers; and using statistical measures to describe data.

During this six weeks students will apply their knowledge of operations to write and solve one and two-step equations. Students will also learn to simplify fractions using the greatest common factor of the numerator and denominator and by using prime factorization. The following is a tentative schedule for the third six weeks. The Glencoe Textbook will be used along with a program called Hands on Equations.

Week of November 17 th Lesson 4-1 Writing expressions and equations Solving equations using Hands on Equations
Week of November 24 th Lesson 4-2 Adding and Subtracting Equations
Week of December 1 st Lesson 4-3 Multiplying and Dividing Equations Mid-Chapter Quiz Lesson 4-4 Problem Solving Strategy Working Backwards
Week of December 8 th Lesson 4-5 Solving 2-Step Equations Lesson 4-6 Geometry Perimeter and Area Lesson 4-7 Functions and Graphs
Week of December 15 th Review and take Chapter 4 Test Lesson 5-1 Prime Factorization Lesson 5-2 Greatest Common Factor
Week of January 5 th Lesson 5-3 Problem Solving Strategy Making an Organized List Lesson 5-4 Simplifying Fractions
Week of January 12 th Review and take Semester Benchmark

7th Grade Math 4th Six Weeks Syllabus

Within a well-balanced mathematics curriculum, the primary focal points at Grade 7 are using direct proportional relationships in number, geometry, measurement, and probability; applying addition, subtraction, multiplication, and division of decimals, fractions, and integers; and using statistical measures to describe data.

During the fourth six weeks, students will learn to express fractions as decimals that either terminate or repeat. In addition, students will learn to convert fractions to decimals and percents and vice versa. Then they will use the least common multiple (LCM) of a set of fractions to compare and order fractions and other rational numbers. Students will also apply their knowledge of fractions by adding, subtracting, multiplying, and dividing fractions and mixed numbers. The students will also examine ratios and rates to solve proportions. They will make and interpret scale drawings, convert among fractions, decimals, and percents greater than 100% and percents less than 1%. The following is a tentative schedule for the fourth six weeks. The Glencoe Textbook will be used along with Countdown to TAKS.

Week of January 19th Lesson 5-5 Fractions and Decimals Lesson 5-6 Fractions and Percents Lesson 5-8 Least Common Multiple Lesson 5-9 Comparing and Ordering Rational Numbers
Week of January 26th Chapter 5 Test Lesson 6-1 Estimating with Fractions Lesson 6-2 Adding and Subtracting Fractions Lesson 6-3 Adding and Subtracting Mixed Numbers
Week of February 2nd Lesson 6-4 Problem solving- Eliminate Possibilities Lesson 6-5 Multiplying Fractions Lesson 6-6 Solving Equations Lesson 6-7 Dividing Fractions
Week of February 9th Review and take Chapter 6 Test Lesson 7-1 Ratios Lesson 7-2 Rates and Lesson 7-3 Changing Customary Units Lesson 7-4 Solving Proportions Lesson 7-5 Problem solving- Draw a Diagram
Week of February 16th Lesson 7-6 Scale Drawings Lesson 7-7 Fractions Decimals and Percents Lesson 7-8 Percents Greater than 100% and less than 1% Review and Take Chapter 7 Test
Week of February 23rd Review and take 4th Six Weeks Benchmark

7th Grade Math 5th Six Weeks Syllabus

During the fifth six weeks, the students will use a percent proportion to calculate percent of change, sales tax, discounts, simple interest, and use statistics to make predictions. Students will use line plots and measures of central tendency to analyze data. They will learn to interpret statistical data through the use of stem-and-leaf plots, bar graphs, and histograms. They will use tables, tree diagrams, and the Fundamental Counting Principle to find the number of possible outcomes of simple events. They will explore permutations and combinations of sets of objects, and also investigate theoretical and experimental probability and independent events. We will also explore the geometry and measurement of two and three-dimensional figures. Students will classify angles based on their measurements and then will apply their knowledge of angles to similar figures, the classification of polygons, and tessellations. Students will also translate and reflect two-dimensional figures on a coordinate plane. Finally, students will find the area of parallelograms, triangles, circles, trapezoids, and find the volume of three-dimensional figures. The following is a tentative schedule for the fifth six. The Glencoe Textbook will be used along with Countdown to TAKS and the Buckle Down Workbook.

Week of March 2 Lesson 8-1 Percent of a Number Lesson 8-2 Percent Proportion Lesson 8-3 Percent and Estimation Lesson 8-4 PSI Determine Reasonable Answers
Week of March 9 Spring Break
Week of March 16 Lesson 8-5 and 8-6 Lesson 8-7 Percent of Change Lesson 8-8 Sales Tax and Discount Lesson 8-9 Simple Interest Chapter 8 Test
Week of March 23 Lesson 7 Geometric Concepts Lesson 8 Coordinate Geometry Lesson 9 Geometry and Spatial Reasoning Lesson 10 Geometric Measurement
Week of March 30 Lesson 11 Data Analysis and Statistics Lesson 12 Sample Spaces Test on Lesson 7-12
Week of April 6 Review TAKS Objective 1-3
Week of April 13 Review TAKS Objective 4-6 Practice by Objective Benchmark Test