Main Criteria: Texas Essential Knowledge and Skills (TEKS)

Secondary Criteria: Delta, Epsilon

Subject: Mathematics

Grade: 5

Correlation Options: Show Correlated

Texas Essential Knowledge and Skills (TEKS)

Mathematics

Grade: **5** - Adopted: **2012**

TEKS	**111.7.**	**Grade 5, Adopted 2012.**
STUDENT EXPECTATION	**111.7.b.1.**	**Mathematical process standards. The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:**
GRADE LEVEL EXPECTATION	111.7.b.1.B.	Use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution. **Delta** Delta Level **Epsilon** Epsilon Level
GRADE LEVEL EXPECTATION	111.7.b.1.C.	Select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems. **Delta** Delta Level **Epsilon** Epsilon Level
GRADE LEVEL EXPECTATION	111.7.b.1.D.	Communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate. **Delta** Delta Level **Epsilon** Epsilon Level
GRADE LEVEL EXPECTATION	111.7.b.1.E.	Create and use representations to organize, record, and communicate mathematical ideas. **Delta** Delta Level **Epsilon** Epsilon Level
GRADE LEVEL EXPECTATION	111.7.b.1.F.	Analyze mathematical relationships to connect and communicate mathematical ideas. **Delta** Delta Level **Epsilon** Epsilon Level

GRADE LEVEL EXPECTATION	111.7.b.1.G.	Display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication. **Delta** Delta Level **Epsilon** Epsilon Level
TEKS	**111.7.**	**Grade 5, Adopted 2012.**
STUDENT EXPECTATION	**111.7.b.3.**	**Number and operations. The student applies mathematical process standards to develop and use strategies and methods for positive rational number computations in order to solve problems with efficiency and accuracy. The student is expected to:**
GRADE LEVEL EXPECTATION	111.7.b.3.B.	Multiply with fluency a three-digit number by a two-digit number using the standard algorithm. **Delta** Lesson 17: “Upside-Down” Multiplication
GRADE LEVEL EXPECTATION	111.7.b.3.C.	Solve with proficiency for quotients of up to a four-digit dividend by a two-digit divisor using strategies and the standard algorithm. **Delta** Lesson 22: Division, Three Digit by Two Digit Lesson 24: Division, Four Digit by Two Digit
GRADE LEVEL EXPECTATION	111.7.b.3.H.	Represent and solve addition and subtraction of fractions with unequal denominators referring to the same whole using objects and pictorial models and properties of operations. **Epsilon** Lesson 05: Addition and Subtraction; Unequal Denominators Lesson 06: The Rule of Four; Multi-Step Word Problems Lesson 08: Adding Multiple Fractions Lesson 21: Adding Mixed Numbers—Regrouping and Unequal Denominators; Mental Math Lesson 22: Subtracting Mixed Numbers—Regrouping and Unequal Denominators
GRADE LEVEL EXPECTATION	111.7.b.3.I.	Represent and solve multiplication of a whole number and a fraction that refers to the same whole using objects and pictorial models, including area models. **Epsilon** Lesson 25: Multiplying Mixed Numbers; Three Fractions; Canceling
GRADE LEVEL EXPECTATION	111.7.b.3.J.	Represent division of a unit fraction by a whole number and the division of a whole number by a unit fraction such as 1/3 ÷ 7 and 7 ÷ 1/3 using objects and pictorial models, including area models. **Epsilon** Lesson 23: Dividing Fractions and Mixed Numbers Using the Reciprocal
GRADE LEVEL EXPECTATION	111.7.b.3.K.	Add and subtract positive rational numbers fluently. **Epsilon** Lesson 03: Add and Subtract Fractions; Common Denominator; Mental Math Lesson 05: Addition and Subtraction; Unequal Denominators Lesson 06: The Rule of Four; Multi-Step Word Problems Lesson 08: Adding Multiple Fractions Lesson 17: Addition and Subtraction of Mixed Numbers Lesson 18: Addition of Mixed Numbers with Regrouping; Word Problems Lesson 19: Subtraction of Mixed Numbers with Regrouping Lesson 20: Subtraction of Mixed Numbers Using the “Same-Difference Theorem” Lesson 21: Adding Mixed Numbers—Regrouping and Unequal Denominators; Mental Math Lesson 22: Subtracting Mixed Numbers—Regrouping and Unequal Denominators

GRADE LEVEL EXPECTATION	111.7.b.3.L.	Divide whole numbers by unit fractions and unit fractions by whole numbers. **Epsilon** Lesson 23: Dividing Fractions and Mixed Numbers Using the Reciprocal
TEKS	**111.7.**	**Grade 5, Adopted 2012.**
STUDENT EXPECTATION	**111.7.b.6.**	**Geometry and measurement. The student applies mathematical process standards to understand, recognize, and quantify volume. The student is expected to:**
GRADE LEVEL EXPECTATION	111.7.b.6.A.	Recognize a cube with side length of one unit as a unit cube having one cubic unit of volume and the volume of a three-dimensional figure as the number of unit cubes (n cubic units) needed to fill it with no gaps or overlaps if possible; and **Delta** Lesson 26: Volume
GRADE LEVEL EXPECTATION	111.7.b.6.B.	Determine the volume of a rectangular prism with whole number side lengths in problems related to the number of layers times the number of unit cubes in the area of the base. **Delta** Lesson 26: Volume **Epsilon** Lesson 06: The Rule of Four; Multi-Step Word Problems
STUDENT EXPECTATION	111.7.b.7.	Geometry and measurement. The student applies mathematical process standards to select appropriate units, strategies, and tools to solve problems involving measurement. The student is expected to solve problems by calculating conversions within a measurement system, customary or metric. **Delta** Lesson 15: Billions, Trillions, and Expanded Notation; Multi-Step Word Problems