

UNIT 3

Title: Number and Operations	Subject/Course: Math	Length:
Topic: Addition/Subtraction of Fractions Davis/Boyd	Grade: 6	Designer:
UNIT GOALS AND EXPECTATIONS		
IMPORTANT CONCEPTS/UNDERSTANDINGS: <ul style="list-style-type: none"> • Powers and roots are related • Successful problem solvers possess a set of core beliefs that support their work: problem solving is important, take significant time and repeated efforts, and requires reflection. • Computational estimation produces approximate results. 	ESSENTIAL QUESTIONS: <ul style="list-style-type: none"> • How are powers and roots related? • What are the specific strategies that have wide application in attacking problems and can help in problem solving? • What is the purpose of estimating and what determines a reasonable estimation for a given situation? 	
STUDENT LEARNING EXPECTATIONS: NO.3.6.2 – Develop and analyze algorithms for computing with fractions(including mixed numbers) and demonstrate with and without appropriate technology computational fluency in their use and justify the solution	NO.3.6.4 – Estimate reasonable solutions to problem situations involving fractions NO.3.6.3 – Solve, with and without appropriate technology, multi-step problems using a variety of methods and tools	
SPECIFIC DECLARATIVE KNOWLEDGE – What I know <ul style="list-style-type: none"> ○ Essential Vocabulary: square root symbol, square root, perfect square, perfect square root, mixed number ○ Identify perfect squares ○ Identify perfect square roots ○ Recognize benchmark fractions ○ Identify sequence of operations' needed to solve problems ○ Identify method/strategy or tool required to solve problem 	SPECIFIC PROCEDURAL KNOWLEDGE – What I need to do <ul style="list-style-type: none"> ○ Compute with all operations using fractions (including mixed numbers and unlike denominators) ○ Justify solution with computational fluency ○ Round benchmark fractions to nearest whole number ○ Estimate calculations using addition and subtraction of fractions. ○ Check appropriate solution ○ Solve multi step problems with and without appropriate technology 	
UNIT ASSESSMENTS		
(Include tasks related to Dimensions 3 and 4 and Bloom's Taxonomy)		
Unit 3 Open Response Unit 3 Open Response Unit 3 Open Response		
Traditional Assessments: <ul style="list-style-type: none"> ○ TLI Module 3 Assessment ○ TLI Module 3 Open Response ○ Unit 2 Assessment ○ Vocabulary Quiz 	Other Evidence of Learning: <ul style="list-style-type: none"> ○ Homework ○ Classwork ○ Warm-up Problems 	

