Elementary Mathematics
Grade 4th

3rd 6 Weeks - Fraction Concepts; Fractions and Decimals; Patterns and Expressions; Whole Numbers, Fractions, and Decimals on the Number Line

TEKS	Essential Understanding	Vocabulary	Resources	Manipulatives
4.2 The student describes and compares fractional parts of whole objects or sets of objects. The student is expected to: (A) use concrete objects and pictorial models to generate equivalent fractions; (B) model fraction quantities greater than one using concrete objects and pictorial models; (C) compare and order fractions using concrete objects and pictorial models; (D) relate decimals to fractions that name tenths and hundredths using concrete objects and pictorial models. **4.7 The student uses organizational structures to analyze and describe patterns and relationships. The student is expected to:** describe the relationship between two sets of related data such as ordered pairs in a table. **4.10 The student recognizes the connection between numbers and their properties and points on a line. The student is expected to:** locate and name points on a number line using whole numbers, fractions such as halves and fourths, and decimals such as tenths.	A fraction describes the division of a whole into equal parts, and it can be interpreted in more than one way depending on the whole to be divided. The same fractional amount can be represented by an infinite set of different but equivalent fractions. Equivalent fractions are found by multiplying or dividing the numerator and denominator by the same nonzero number. A fraction can be expressed in its simplest form dividing the numerator and denominator by common factors until there are no other common factors other than 1. A decimal is another name for a fraction. Each whole number and fraction/decimal can be associated with a unique point on the number line. You can compare two whole numbers, fraction, decimals, or mixed numbers by marking their locations on a number line.	fraction denominator benchmark fraction common factor simplest form numerator equivalent fractions variable algebraic expression mixed number	**Joint Usage** **enVision Math** Topic 10: Fraction Concepts **Investigations** Unit 6: Fraction Cards and Decimal Squares --- **enVision Math** Topic 11: **Fractions and Decimals** **Investigations** Unit 6: Fraction Cards and Decimal Squares --- **enVision Math** Topic 12: Patterns and Expressions **Investigations** Unit 9: Penny Jars and Plan t Growth --- **enVision Math** Topic 13: Fractions, and Decimals on the Number Line **Investigations** Unit 6: Fraction Cards and Decimal Squares	fraction circles paper strips two-color counters fraction strips place-value blocks connecting cubes fraction strips decimal models rulers

On-Going Practices/TEKS
3rd graders must be able to solve problems of everyday situations; explain and record observations; make generalizations and justify answers.