

Unit / Lesson / ExplorAction	Grade 4 Lesson Objective	TEKS	Manipulative(s)	Description
Unit 1: Equivalent Fractions and Decimals				
Lesson 1	Recognize equivalent fractions a/b and $(n \times a)/(n \times b)$ by identifying n .	4.3C	Fraction Towers	Determine if two given fractions are equivalent using a variety of methods.
Lesson 2	Find equivalent fractions in simplest terms.	4.3C	Fraction Towers	Determine if two given fractions are equivalent using a variety of methods.
Lesson 3	Convert between improper fractions and mixed numbers.	4.3B	Fraction Squares	Decompose a fraction in more than one way into a sum of fractions with the same denominator using concrete and pictorial models and recording results with symbolic representations.
Fractions ExplorAction 1	Decompose fractions into sums.	4.3A	Cuisenaire Rods	Represent a fraction a/b as a sum of fractions $1/b$, where a and b are whole numbers and $b > 0$, including when $a > b$.
Fractions ExplorAction 1	Decompose fractions into sums.	4.3B	Cuisenaire Rods	Decompose a fraction in more than one way into a sum of fractions with the same denominator using concrete and pictorial models and recording results with symbolic representations.
Lesson 4	Use decimal notation to express fractions with denominators of 10 and 100.	4.2E	Base Ten Blocks Fraction Squares	Represent decimals, including tenths and hundredths, using concrete and visual models and money.
Lesson 4	Use decimal notation to express fractions with denominators of 10 and 100.	4.2G	Base Ten Blocks Fraction Squares	Relate decimals to fractions that name tenths and hundredths.
Fractions ExplorAction 2	Identify fractions and decimals on a number line.	4.2G	Folding Number Line	Relate decimals to fractions that name tenths and hundredths.
Fractions ExplorAction 2	Identify fractions and decimals on a number line.	4.2H	Folding Number Line	Determine the corresponding decimal to the tenths or hundredths place of a specified point on a number line.
Fractions ExplorAction 2	Identify fractions and decimals on a number line.	4.3G	Folding Number Line	Represent fractions and decimals to the tenths or hundredths as distances from zero on a number line.
Unit 2: Compare and Order Fractions				
Lesson 1	Compare two fractions by creating common denominators.	4.3D	Cuisenaire Rods	Compare two fractions with different numerators and different denominators and represent the comparison using the symbols $>$, $=$, or $<$.
Lesson 2	Compare two fractions by creating common numerators.	4.3D	Fraction Circles	Compare two fractions with different numerators and different denominators and represent the comparison using the symbols $>$, $=$, or $<$.
Lesson 3	Compare two fractions by comparing them to a benchmark.	4.3D	Fraction Towers Fraction Number Line (blank line)	Compare two fractions with different numerators and different denominators and represent the comparison using the symbols $>$, $=$, or $<$.
Fractions ExplorAction 1	Investigate the effect of changing the numerator or denominator of a fraction.	4.3F	Fraction Circles	Evaluate the reasonableness of sums and differences of fractions using benchmark fractions 0 , $1/4$, $1/2$, $3/4$, and 1 , referring to the same whole.
Lesson 4	Compare decimals to hundredths.	4.2F	Base Ten Blocks	Compare and order decimals using concrete and visual models to the hundredths.
Fractions ExplorAction 2	Order decimals on a number line.	4.2F	Folding Number Line	Compare and order decimals using concrete and visual models to the hundredths.
Fractions ExplorAction 2	Order decimals on a number line.	4.2H	Folding Number Line	Determine the corresponding decimal to the tenths or hundredths place of a specified point on a number line.
Fractions ExplorAction 2	Order decimals on a number line.	4.3G	Folding Number Line	Represent fractions and decimals to the tenths or hundredths as distances from zero on a number line.
Unit 3: Add and Subtract Fractions				
Lesson 1	Add two proper fractions (same denominator, sum is proper fraction).	4.3E	Fraction Circles	Represent and solve addition and subtraction of fractions with equal denominators using objects and pictorial models that build to the number line and properties of operations.
Lesson 2	Add two proper fractions (same denominator, sum is improper fraction).	4.3E	Fraction Towers	Represent and solve addition and subtraction of fractions with equal denominators using objects and pictorial models that build to the number line and properties of operations.

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Lesson 3	Subtract one proper fraction from another (same denominator).	4.3E	Fraction Circles	Represent and solve addition and subtraction of fractions with equal denominators using objects and pictorial models that build to the number line and properties of operations.
Lesson 4	Add two mixed numbers (same denominator).	4.3E	Fraction Towers Fraction Number Line (blank line)	Represent and solve addition and subtraction of fractions with equal denominators using objects and pictorial models that build to the number line and properties of operations.
Lesson 5	Subtract one mixed number from another (same denominator).	4.3E	Fraction Towers Fraction Number Line (blank line)	Represent and solve addition and subtraction of fractions with equal denominators using objects and pictorial models that build to the number line and properties of operations.
Lesson 6	Add two fractions with respective denominators 10 and 100.	4.3C	Base Ten Blocks	Determine if two given fractions are equivalent using a variety of methods.
Lesson 6	Add two fractions with respective denominators 10 and 100.	4.3E	Base Ten Blocks	Represent and solve addition and subtraction of fractions with equal denominators using objects and pictorial models that build to the number line and properties of operations.
Fractions ExplorAction 1	Investigate addition and subtraction with fractions using area models and number lines.	4.3E	Fraction Towers Fraction Number Line (double line)	Represent and solve addition and subtraction of fractions with equal denominators using objects and pictorial models that build to the number line and properties of operations.
Lesson 7	Solve word problems involving addition and subtraction of fractions.	4.3E	Fraction Circles	Represent and solve addition and subtraction of fractions with equal denominators using objects and pictorial models that build to the number line and properties of operations.