

PK-5 Fraction Learning Progression

An evidence-informed framework for curriculum conversation

FRACTIONS DECIMALS AND PERCENTS

E	P	M	AM
Exploring	Practicing	Mastering	Attained mastery entering grade

Grade placements are suggested developmental benchmarks for shared discussion, not an evaluation of existing instruction. These ideas may already be present in current practice; use the framework to compare approaches and connect learning across grades.

Learning target	PK	K	1	2	3	4	5
FOUNDATIONS							
Recognize equal and unequal shares	E	P	M	AM			
Partition shapes and sets into equal shares	E	P	P	M	AM		
Identify and maintain the referent whole		E	P	P	M	AM	
Name halves, thirds, fourths, and other unit fractions		E	P	M	AM		
Use fraction vocabulary and notation			E	P	P	M	AM
FRACTIONS AS NUMBERS							
Understand $1/b$ as one equal-sized unit				E	M	AM	
Understand a/b as a copies of $1/b$				E	M	AM	
Represent fractions with objects, areas, sets, symbols, and language		E	E	P	P	M	AM
Locate proper and improper fractions on a number line				E	M	AM	
Reason about fraction magnitude			E	P	P	M	AM
Compare fractions using benchmarks and structure				E	P	M	AM
Estimate and test fraction reasonableness			E	P	P	P	M

FRACTIONS DECIMALS AND PERCENTS CONTINUED

Learning target	PK	K	1	2	3	4	5
EQUIVALENCE AND COMPOSITION							
Generate and justify equivalent fractions					E	M	AM
Compose and decompose fractions				E	P	M	AM
Work with fractions greater than one and mixed numbers					E	P	M
OPERATIONS AND INTERPRETATION							
Add and subtract fractions with like denominators					E	M	AM
Add and subtract fractions with unlike denominators						E	M
Interpret a fraction as division					E	P	M
Multiply a fraction by a whole number					E	M	AM
Multiply fractions and interpret scaling						E	M
Divide a whole number by a unit fraction and vice versa							M
DECIMALS PERCENTS AND TRANSFER							
Connect tenths and hundredths to decimal notation					E	M	AM
Convert between fractions and decimals						E	M
Understand, compare, and round decimals					E	P	M
Multiply and divide decimals						E	M
Explore familiar benchmark percents							E
Explain reasoning and analyze fraction errors	E	E	P	P	P	M	AM

Suggested Grade 6 transition: General fraction-by-fraction division, ratios, rates, formal percent conversion, and percent of a number provide a bridge into middle school mathematics. Confirm placement through curriculum conversation.

Evidence of durable understanding: Look across accuracy, magnitude reasoning, representations, explanation, and transfer. Delayed checks help distinguish retention from end-of-unit performance.