Georgia Mathematics

# Grade 5 - Learning Progressions

Adopted 2021

**K-5 Learning Progressions**

**Numerical Reasoning**

Numbers (whole numbers, fractions, and decimal numbers)

1. Multi-digit whole numbers 5.LP1.1.1
2. Fractions with unlike denominators 5.LP1.1.2
3. Fractions greater than 1 5.LP1.1.3
4. Decimal fractions to thousandths 5.LP1.1.4

Counting

1. Counting decimal numbers 5.LP1.2.1

Place Value

1. Magnitude of place value extended to decimal numbers 5.LP1.3.1
2. Powers of 10 to 10<sup>3</sup> 5.LP1.3.2
3. Read & write decimal numbers to thousandths place 5.LP1.3.3
4. Round decimal numbers to hundredths place 5.LP1.3.4

Comparisons

1. Decimal fractions to thousandths place 5.LP1.4.1
2. Fractions greater than 1 5.LP1.4.2

Computational Fluency

1. Fluency with multiplication and division with multi-digit whole numbers 5.LP1.5.1

Addition & Subtraction

1. Fractions with unlike denominators 5.LP1.6.1
2. Decimal fractions to the hundredths place 5.LP1.6.2

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Multiplication & Division

1. Multiply multi-digit whole numbers 5.LP1.7.1
2. Multiply fractions and whole numbers 5.LP1.7.2
3. Divide unit fractions and whole numbers 5.LP1.7.3
4. Reason about multiplying by a fraction >, <, or = 1 5.LP1.7.4

Expressions

1. Simple numerical expressions involving whole numbers with or without grouping symbols 5.LP1.8.1
2. Express fractions as division problems 5.LP1.8.2

**Patterning & Algebraic Reasoning**

Patterns

1. Generate two numerical patterns using a given rule 5.LP2.1.1
2. Identify relationships using a table 5.LP2.1.2

Graphing

1. Plot order pairs in first quadrant 5.LP2.2.1

**Geometric & Spatial Reasoning**

Shapes And Properties

1. Classify polygons based on geometric properties 5.LP3.1.1
2. Relationships between categories and subcategories of shapes 5.LP3.1.2

Geometric Measurement

1. Volume of right rectangular prisms 5.LP3.2.1

**Measurement & Data Reasoning**

Measurement & Data

1. Measure length and weight in metric units 5.LP4.1.1
2. Convert between units of measurement 5.LP4.1.2
3. Create and analyze dot plots (line plots) with fraction measurements 5.LP4.1.3

Money

1. Using money as a tool to solve problems involving decimals 5.LP4.2.1

Time

1. Solving problems involving time 5.LP4.3.1

**5-12 Learning Progressions**

**Numerical Reasoning**

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Numbers (rational numbers and irrational numbers)

1. Multi-digit whole numbers 5.LP5.1.1
2. Fractions with unlike denominators 5.LP5.1.2
3. Fractions greater than 1 5.LP5.1.3
4. Decimal numbers to thousandths 5.LP5.1.4
5. Powers of 10 to 10<sup>3</sup> 5.LP5.1.5

Computational Fluency

1. Add & subtract fractions with unlike denominators 5.LP5.2.1
2. Add and subtract decimal numbers to the hundredths place 5.LP5.2.2
3. Multiply & divide multi-digit whole numbers 5.LP5.2.3
4. Multiply fractions and whole numbers 5.LP5.2.4
5. Divide unit fractions and whole numbers 5.LP5.2.5
6. Reason about multiplying by a fraction >, <, or = 1 5.LP5.2.6

Comparisons

1. Decimal fractions to thousandths place 5.LP5.3.1
2. Fractions greater than 1 5.LP5.3.2

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**Patterning & Algebraic Reasoning**

Patterns

1. Generate two numerical patterns from a given rule 5.LP6.1.1
2. Identify relationships using a table 5.LP6.1.2

Expressions

1. Simple numerical expressions involving whole numbers with or without grouping symbols (Numerical Reasoning) 5.LP6.2.1
2. Express fractions as division problems (Numerical Reasoning) 5.LP6.2.2

Graphing

1. Plot order pairs in first quadrant 5.LP6.6.1

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**Geometric & Spatial Reasoning**

Shapes & Properties

1. Classify polygons based on geometric properties 5.LP8.1.1

Geometric Measurement

1. Volume of right rectangular prisms 5.LP8.2.1