

Math Priority Standards Grade Level Overview

		Content and Processes							Facts, Fluency, and Skills				
<table border="1"> <tr> <td style="background-color: #ADD8E6;">Grade Level Performance Expectation (PE) as identified by OSPI</td> <td>Priority Standard as identified by EPS</td> </tr> <tr> <td>No GLE identified by state for grade level</td> <td></td> </tr> </table>		Grade Level Performance Expectation (PE) as identified by OSPI	Priority Standard as identified by EPS	No GLE identified by state for grade level		Numbers	Operations	Measurement		Algebra	Geometry	Data, Statistics and Probability	Processes
Grade Level Performance Expectation (PE) as identified by OSPI	Priority Standard as identified by EPS												
No GLE identified by state for grade level													
DRAFT													
K	K.1 Core Content: Whole numbers												
	K.2 Core Content: Patterns and operations												
	K.3 Core Content: Objects and their locations												
	K.4 Additional Key Content (measurable attributes)												
	K.5 Core Processes: Reasoning, problem solving, and communication												
1	1.1 Core Content: Whole Number Relationships												
	1.2 Core Content: Addition and Subtraction												
	1.3 Core Content: Geometric Attributes												
	1.4 Core Content: Concepts of Measurement												
	1.5 Additional Key Content (data representation and Analysis)												
	1.6 Core Processes: Reasoning, problem solving, and communication												
2	2.1 Core Content: Whole number relationships												
	2.2 Core Content: Addition and Subtraction												
	2.3 Core Content: Measurement, length and time												
	2.4 Additional Key Content (2-D and 3-D figures, data collection, representation and analysis, equal groups as a foundation for multiplication, division and fractions)												
	2.5 Core processes: Reasoning, problem solving and communication												

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DRAFT		Numbers	Operations	Measurement	Algebra	Geometry	Data, Statistics and Probability	Processes	Facts, Fluency, and Skills
3	3.1 Core Content: Addition, subtraction and place value								
	3.2 Core Content: Concepts of multiplication and division								
	3.3 Core Content: Fraction concepts								
	3.4 Core Content: Geometry (lines, right angles, quadrilaterals, and perimeter)								
	3.5 Additional Key Content (metric and customary measurement, equality, and data representation/analysis)								
	3.6 Core Processes: Reasoning, problem solving, and communication								
4	4.1 Core Content: Multi-digit Multiplication								
	4.2 Core Content: Fractions, decimals and mixed numbers								
	4.3 Core Content: Concept of Area								
	4.4 Additional Key Content (expressions and equations, measurement unit conversions, time, coordinate grids median, mode and range, and probability)								
	4.5 Core Processes: Reasoning, problem solving and communication								
	4.6 Core Processes: Reasoning, problem solving and communication								
5	5.1 Core Content: Multi-digit division								
	5.2 Core Content: Addition and subtraction of fractions and decimals								
	5.3 Core Content: Triangles and quadrilaterals								
	5.4 Core Content: Representations of algebraic relationships								
	5.5 Additional Key Content (prime and composite numbers, mean, line graphs, algebraic expressions)								
	5.6 Core Processes: Reasoning, problem solving and communication								

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DRAFT		Numbers	Operations	Measurement	Algebra	Geometry	Data, Statistics and Probability	Processes	Facts, Fluency, and Skills
6	6.1 Core Content: Multiplication and division of fractions and decimals								
	6.2 Core Content: Mathematics expressions and equations								
	6.3 Core Content: Ratios, rates and percents								
	6.4 Core Content: Two- and three-dimensional figures								
	6.5 Additional Key Content (mental computation, integers)								
	6.6 Core Processes: Reasoning, problem solving and communication								
7	7.1 Core Content: Rational numbers and linear equations								
	7.2 Core Content: Proportionality and similarity								
	7.3 Core Content: Surface area and volume								
	7.4 Core Content: Probability and data								
	7.5 Additional Key Content (coordinate graphing and prime factorization)								
	7.6 Core Processes: Reasoning, problem solving and communication								
8	8.1 Core Content: Linear functions and equations								
	8.2 Core Content: Properties of geometric figures								
	8.3 Core Content: Summary and analysis of data sets								
	8.4 Additional Key Content: (scientific notation, laws of exponents and order of operations, rational and irrational numbers)								
	8.5 Core Processes: Reasoning, problem solving and communication								

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DRAFT		Numbers	Operations	Measurement	Algebra	Geometry	Data, Statistics and Probability	Processes	Facts, Fluency, and Skills
M1	M1.1 Core Content: Solving problems								
	M1.2 Core Content: Characteristics and behaviors of functions								
	M1.3 Core Content: Linear functions, equations and relationships								
	M1.4 Core Content: Proportionality, similarity and geometric reasoning								
	M1.5 Core Content: Data and distributions								
	M1.6 Core Content: Numbers, expressions and operations								
	M1.7 Additional Key Content: (exponential functions, exponents and roots, explicit and recursive forms of sequences)								
	M1.8 Core Processes: Reasoning, problem solving and communication								
M2	M2.1 Core Content: Modeling situations and solving problems								
	M2.2 Core Content: quadratic functions, equations and relationships								
	M2.3 Core Content: Conjectures and proofs								
	M2.4 Core Content: Probability								
	M2.5 Additional Key Content: (factoring, measurement, partial sums and series)								
	M2.6 Core Processes: Reasoning, problem solving and communication								

Math Strands and Components

Kindergarten: Numbers

A central theme in Kindergarten is **becoming comfortable with numbers**. Students learn about sorting and matching and become familiar with whole numbers: counting, comparing numbers, and discovering relationships among numbers. Students explore patterns and geometric objects and identify examples of both in their world.

K.1 Core Content: Whole numbers

K.2 Core Content: Patterns and operations

K.3 Core Content: Objects and their locations

K.4 Additional Key Content: (measurable attributes)

K.5 Core Processes: Reasoning, problem solving, and communication

Grade 1: Using Numbers

A central theme in Grade 1 is **the power of using numbers**; this helps students accomplish mathematics tasks meaningfully. Students develop number knowledge, explore how numbers can be combined to make other numbers, and learn about addition and subtraction. Concepts of measurement help to reinforce number ideas.

1.1 Core Content: Whole Number Relationships

1.2 Core Content: Addition and Subtraction

1.3 Core Content: Geometric Attributes

1.4 Core Content: Concepts of Measurement

1.5 Additional Key Content (data representation and Analysis)

1.6 Core Processes: Reasoning, problem solving, and communication

Grade 2: Place Value

A central theme in Grade 2 is **understands place value for whole numbers**. Students develop understanding of the number system, including how the position of a digit affects its value, and use this knowledge to develop skill with more complex computation. They begin making measurements with standard measuring tools.

2.1 Core Content: Whole number relationships

2.2 Core Content: Addition and Subtraction

2.3 Core Content: Measurement, length and time

2.4 Additional Key Content (2-D and 3-D figures, data collection, representation and analysis, equal groups as a foundation for multiplication, division and fractions)

2.5 Core processes: Reasoning, problem solving and communication

Grade 3: Multiplication, Division and Fraction Concepts

A central theme in Grade 3 is developing the **meaning of multiplication, division, and fractions**, although consolidation of addition and subtraction computation is also expected. Students develop understanding of the relationship between multiplication and division. They begin work with fractions and extend their addition skills to finding perimeters of quadrilaterals and developing pictographs where one symbol stands for multiple objects.

- 3.1 Core Content: Addition, subtraction and place value
- 3.2 Core Content: Concepts of multiplication and division
- 3.3 Core Content: Fraction concepts
- 3.4 Core Content: Geometry (lines, right angles, quadrilaterals, and perimeter)
- 3.5 Additional Key Content (metric and customary measurement, equality, and data representation/analysis)
- 3.6 Core Processes: Reasoning, problem solving, and communication

Grade 4: Using Multiplication

A central theme in Grade 4 is **using multiplication**. Students learn multiplication procedures, including algorithms, and apply those procedures in different contexts. Area is a direct use of multiplication, and procedures for finding equivalent fractions (including translating between fractions and mixed numbers) can also be an application of multiplication. Decimal notation extends place value knowledge.

- 4.1 Core Content: Multi-digit Multiplication
- 4.2 Core Content: Fractions, decimals and mixed numbers
- 4.3 Core Content: Concept of Area
- 4.4 Additional Key Content (expressions and equations, measurement unit conversions, time, coordinate grids median, mode and range, and probability)
- 4.5 Core Processes: Reasoning, problem solving and communication

Grade 5: Relationships and Procedures for Division

A central theme in Grade 5 is **relating division and fractions**. Students consolidate their computation skills by learning procedures for division of multi-digit numbers and for adding and subtracting fractions and decimals. Working with algebraic relationships helps extend understanding of the properties of numbers and operations.

- 5.1 Core Content: Multi-digit division
- 5.2 Core Content: Addition and subtraction of fractions and decimals
- 5.3 Core Content: Triangles and quadrilaterals
- 5.4 Core Content: Representations of algebraic relationships
- 5.5 Additional Key Content (prime and composite numbers, mean, line graphs, algebraic expressions)
- 5.6 Core Processes: Reasoning, problem solving and communication

Grade 6: Proportional Reasoning

A central theme in Grade 6 is **proportional reasoning**. Students begin to develop multiplicative and proportional reasoning. Ratios, rates, and percents, as well as study of two- and three-dimensional figures, support understanding of proportions. Students are introduced to variables, one-step equations, and graphing of simple functions.

- 6.1 Core Content: Multiplication and division of fractions and decimals
- 6.2 Core Content: Mathematics expressions and equations
- 6.3 Core Content: Ratios, rates and percents
- 6.4 Core Content: Two- and three-dimensional figures
- 6.5 Additional Key Content (mental computation, integers)
- 6.6 Core Processes: Reasoning, problem solving and communication

Grade 7: Applying Proportions

A central theme in Grade 7 is **application of proportions**. Students learn about proportions (i.e., a proportion is the equating of two ratios) and apply that knowledge. Procedures for computing surface area and volume and study of probability provide opportunities to use proportions. Negative numbers are introduced to extend number sense to all rational numbers; this is critical for algebraic reasoning. Students solve two-step equations and learn different ways to display data.

- 7.1 Core Content: Rational numbers and linear equations
- 7.2 Core Content: Proportionality and similarity
- 7.3 Core Content: Surface area and volume
- 7.4 Core Content: Probability and data
- 7.5 Additional Key Content (coordinate graphing and prime factorization)
- 7.6 Core Processes: Reasoning, problem solving and communication

Grade 8: Algebraic Thinking

A central theme in Grade 8 is **algebraic thinking**. Students consolidate their understanding of multiplicative and proportional reasoning and apply these ideas to fundamental concepts of algebra. Techniques for summarizing and analyzing data are further developed and comparison of two data sets with unequal numbers of data elements provides a sophisticated application of proportions. Study of linear functions helps students generalize their understanding of proportions to situations involving linear relationships that are not proportional.

- 8.1 Core Content: Linear functions and equations
- 8.2 Core Content: Properties of geometric figures
- 8.3 Core Content: Summary and analysis of data sets
- 8.4 Additional Key Content: (scientific notation, laws of exponents and order of operations, rational and irrational numbers)
- 8.5 Core Processes: Reasoning, problem solving and communication

Integrated 1: Linear Functions

A central theme in Integrated 1 is **linear functions**.

M1.1 Core Content: Solving problems

M1.2 Core Content: Characteristics and behaviors of functions

M1.3 Core Content: Linear functions, equations and relationships

M1.4 Core Content: Proportionality, similarity and geometric reasoning

M1.5 Core Content: Data and distributions

M1.6 Core Content: Numbers, expressions and operations

M1.7 Additional Key Content: (exponential functions, exponents and roots, explicit and recursive forms of sequences)

M1.8 Core Processes: Reasoning, problem solving and communication

Integrated 2: Quadratic Functions

A central theme in Integrated 2 is **extending the study of functions to include quadratic functions**.

M2.1 Core Content: Modeling situations and solving problems

M2.2 Core Content: quadratic functions, equations and relationships

M2.3 Core Content: Conjectures and proofs

M2.4 Core Content: Probability

M2.5 Additional Key Content: (factoring, measurement, partial sums and series)

M2.6 Core Processes: Reasoning, problem solving and communication