

**THE FOLLOWING STATE CURRICULUM STANDARDS ARE ADDRESSED BY
THE QUARTER MILE MATH SOFTWARE
FOR THE STATE OF WASHINGTON**

Grades K - 4

Subject: MATH

Standard: 1. The Student Understands And Applies The Concepts And Procedures Of Mathematics.

Strand: 1.1 Understand And Apply Concepts And Procedures From Number Sense

Substrand	Titles that Address the Substrand
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(Gr. K-4) identify, compare, and order whole numbers and simple fractions (number and numeration)

Quarter Mile Math Level 1

Quarter Mile Math Level 2

(Gr. K-4) add, subtract, multiply, and divide whole numbers (computation)

Quarter Mile Math Level 1

Quarter Mile Math Level 2

(Gr. K-4) use mental arithmetic, pencil and paper, or calculator as appropriate to the task involving whole numbers (computation)

Quarter Mile Math Level 1

Quarter Mile Math Level 2

(Gr. K-4) identify situations involving whole numbers in which estimation is useful (estimation)

Quarter Mile Math Level 1

Quarter Mile Math Level 2

(Gr. K-4) use estimation to predict computation results and to determine the reasonableness of answers, for example, estimating a grocery bill (estimation)

Quarter Mile Math Level 2

Subject: MATH

Standard: 1. The Student Understands And Applies The Concepts And Procedures Of Mathematics.

Strand: 1.5 Understand And Apply Concepts And Procedures From Algebraic Sense

Substrand	Titles that Address the Substrand
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(Gr. K-4) understand and use guess and check in the search for patterns (relations and representations)

Quarter Mile Math Level 1

Quarter Mile Math Level 2

(Gr. K-4) use standard notation in reading and writing open sentences, for example, $3x = 18$ (relations and representations)

Quarter Mile Math Level 2

Subject: MATH

Standard: 2. The Student Uses Mathematics To Define And Solve Problems.

Strand: 2.1 Investigate Situations

Quarter Mile Math Level 2

Subject: MATH

Standard: 5. The Student Understands How Mathematical Ideas Connect Within Mathematics, To Other Subject Areas, And To Real-life Situations.

Strand: 5.2 Relate Mathematical Concepts And Procedures To Other Disciplines

Substrand Titles that Address the Substrand

(Gr. K-4) recognize mathematical patterns and ideas in familiar situations in other disciplines

Quarter Mile Math Level 1

Quarter Mile Math Level 2

Grades 5 - 7

Subject: MATH

Standard: 1. The Student Understands And Applies The Concepts And Procedures Of Mathematics.

Strand: 1.1 Understand And Apply Concepts And Procedures From Number Sense

Substrand Titles that Address the Substrand

(Gr. 5-7) compare and order whole numbers, fractions, and decimals (number and numeration)

Quarter Mile Math Level 2

Quarter Mile Math Level 3

(Gr. 5-7) understand the concepts of prime and composite numbers, factors and multiples, and divisibility rules (number and numeration)

Quarter Mile Math Level 2

(Gr. 5-7) understand operations on rational numbers (computation)

Quarter Mile Math Level 2

Quarter Mile Math Level 3

(Gr. 5-7) add, subtract, multiply, and divide non-negative fractions and decimals using rules for order of operation (computation)

Quarter Mile Math Level 2

Quarter Mile Math Level 3

(Gr. 5-7) use mental arithmetic, pencil and paper, calculator, or computer as appropriate to the task involving rational numbers (computation)

Quarter Mile Math Level 2

Quarter Mile Math Level 3

(Gr. 5-7) identify situations involving rational numbers in which estimation is sufficient and computation is not required (estimation)

Quarter Mile Math Level 2

(Gr. 5-7) use estimation to predict computation results and to determine the reasonableness of answers involving rational numbers, for example, estimating a tip (estimation)

Quarter Mile Math Level 2

Subject: MATH

Standard: 1. The Student Understands And Applies The Concepts And Procedures Of Mathematics.

Strand: 1.4 Understand And Apply Concepts And Procedures From Probability And Statistics

Substrand Titles that Address the Substrand

(Gr. 5-7) calculate and use mean, median, and mode as appropriate in describing a set of data (statistics)

Quarter Mile Math Level 2

Quarter Mile Math Level 3

Subject: MATH

Standard: 1. The Student Understands And Applies The Concepts And Procedures Of Mathematics.

Strand: 1.5 Understand And Apply Concepts And Procedures From Algebraic Sense

Substrand Titles that Address the Substrand

(Gr. 5-7) recognize, create, and extend patterns and sequences (relations and representations)

Quarter Mile Math Level 2

Quarter Mile Math Level 3

(Gr. 5-7) represent equalities and inequalities symbolically using = , > , < , ≤ , ≥ , (relations and representations)

Quarter Mile Math Level 1

(Gr. 5-7) understand and use variables in simple equations, inequalities, and formulas, for example, $3x > 18$ (relations and representations)

Quarter Mile Math Level 2

Quarter Mile Math Level 3

(Gr. 5-7) evaluate simple expressions (operations)

Quarter Mile Math Level 2

Quarter Mile Math Level 3

(Gr. 5-7) set up and solve single-variable equations (operations)

Quarter Mile Math Level 2

Quarter Mile Math Level 3

Subject: MATH

Standard: 2. The Student Uses Mathematics To Define And Solve Problems.

Strand: 2.1 Investigate Situations

Substrand Titles that Address the Substrand

(Gr. 5-7) develop and use a variety of strategies and approaches

Quarter Mile Math Level 2

Quarter Mile Math Level 3

(Gr. 5-7) identify missing or extraneous information

Quarter Mile Math Level 2

Quarter Mile Math Level 3

Subject: MATH

Standard: 2. The Student Uses Mathematics To Define And Solve Problems.

Strand: 2.2 Formulate Questions And Define The Problem

Substrand Titles that Address the Substrand

(Gr. 5-7) identify questions to be answered in new situations

Quarter Mile Math Level 2

Quarter Mile Math Level 3

Subject: MATH

Standard: 5. The Student Understands How Mathematical Ideas Connect Within Mathematics, To Other Subject Areas, And To Real-life Situations.

Strand: 5.1 Relate Concepts And Procedures Within Mathematics

Substrand Titles that Address the Substrand

(Gr. 5-7) relate and use different mathematical models and representations for the same situation

Quarter Mile Math Level 3

Grades 8 - 10

Subject: MATH

Standard: 1. The Student Understands And Applies The Concepts And Procedures Of Mathematics.

Strand: 1.1 Understand And Apply Concepts And Procedures From Number Sense

Substrand Titles that Address the Substrand

(Gr. 8-10) understand and use properties and symbolic representations of real numbers (number and numeration)

Quarter Mile Math Level 3

(Gr. 8-10) understand concepts of and use processes involving prime and composite numbers, factors and multiples, and divisibility (number and numeration)

Quarter Mile Math Level 2

(Gr. 8-10) understand operations on real numbers (computation)

Quarter Mile Math Level 3

(Gr. 8-10) compute with real numbers, powers, and roots (computation)

Quarter Mile Math Level 2

Quarter Mile Math Level 3

(Gr. 8-10) use mental arithmetic, pencil and paper, calculator, or computer as appropriate to the task involving real numbers (computation)

Quarter Mile Math Level 3

(Gr. 8-10) identify situations involving real numbers in which estimation is sufficient and computation is not required (estimation)

Quarter Mile Math Level 2

(Gr. 8-10) use estimation to predict computation results and to determine the reasonableness of answers involving real numbers, for example, estimating the interest on a loan (estimation)

Quarter Mile Math Level 2

Subject: MATH

Standard: 1. The Student Understands And Applies The Concepts And Procedures Of Mathematics.

Strand: 1.5 Understand And Apply Concepts And Procedures From Algebraic Sense

Substrand Titles that Address the Substrand

(Gr. 8-10) evaluate and simplify expressions (operations)

Quarter Mile Math Level 3

(Gr. 8-10) create and solve equations and inequalities (operations)

Quarter Mile Math Level 3

