

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

Grades K - 3

Subject: MATH

Standard: Math Applications

Strand: Number Sense

Substrand Titles that Address the Substrand

(Gr. K-3) 1. using whole numbers to represent numbers in more than one way, count and order, name and locate, measure, and describe and extend pattern;

Quarter Mile Math Level 1

(Gr. K-3) 2. demonstrating an understanding of place value, number relationships, relative size, and reasonableness of answers in problem-solving situations; and

Quarter Mile Math Level 1

Grades 4 - 5

Subject: MATH

Standard: Math Applications

Strand: Chance And Data Handling

Substrand Titles that Address the Substrand

(Gr. 4-5) 1. demonstrate understanding of how to find range, mean, and median simple concepts of likelihood including impossible, unlikely, equal chance, likely, certain, fair, and unfair; and information displayed in graphs, tables, and charts;

Quarter Mile Math Level 2

Subject: MATH

Standard: Math Applications

Strand: Number Sense

Substrand Titles that Address the Substrand

(Gr. 4-5) 1. demonstrate understanding of concepts of place value, variables, and equations; when and how to use number operations; when and how to use a variety of estimation strategies; addition, subtraction, and multiplication of single-digit multiples of powers of ten; and the reasonableness of calculator results;

Quarter Mile Math Level 2

(Gr. 4-5) 2. use number concepts and a variety of math operations to represent information and solve problems;

Quarter Mile Math Level 2

(Gr. 4-5) 3. solve a variety of multiple-step problems using number relationships and properties, number patterns, and appropriate computation or estimation procedures;

Quarter Mile Math Level 2

(Gr. 4-5) 4. generate and describe more than one method to solve problems;

Quarter Mile Math Level 2

(Gr. 4-5) 5. use whole numbers, simple fractions, and money amounts to quantify, label, measure, and locate numerical information;

Quarter Mile Math Level 2

Subject: MATH

Standard: Math Applications

Strand: Number Sense

Substrand

Titles that Address the Substrand

(Gr. 6-8) 1. demonstrate understanding of number concepts including place value, exponents, prime and composite numbers, multiples, and factors; fractions, decimals, percents, integers, and numbers in scientific notation by translating among equivalent forms; and compare and order numbers within a set;

Quarter Mile Math Level 2

Quarter Mile Math Level 3

(Gr. 6-8) 2. solve a variety of problems by representing numbers efficiently, selecting appropriate operations, selecting appropriate methods to estimate or compute, and generating and describing more than one method to solve problems;

Quarter Mile Math Level 2

Quarter Mile Math Level 3

(Gr. 6-8) 3. analyze and justify operations and methods used and evaluate the reasonableness of computed results to problems with proposed solutions;

Quarter Mile Math Level 3

(Gr. 6-8) 4. apply proportional reasoning to solve a variety of problems using rates, ratios, proportions, and percents; and

Quarter Mile Math Level 2

Quarter Mile Math Level 3

(Gr. 6-8) 5. create a real-world communication that demonstrates the ability to use a variety of numbers in context.

Subject: MATH

Standard: Math Applications

Strand: Patterns And Functions

Substrand

Titles that Address the Substrand

(Gr. 6-8) 1. analyze patterns and use concepts of algebra to represent mathematical relationships, including demonstrating understanding of the concepts of variables, expressions, and equations;

Quarter Mile Math Level 2

Quarter Mile Math Level 3

Subject: MATH

Standard: Math Applications

Strand: Algebraic Patterns

Substrand

Titles that Address the Substrand

(Gr. 9-12) D. use algebraic concepts and processes to represent and solve problems involving variable quantities; and

Quarter Mile Math Level 3