

TFSD Power Standards

Grade 7

Middle School Math

Standard 1: Probability and Statistics

Students collect, organize, display, interpret and analyze data.

Students determine the probability of simple events.

Standard 2: Fractions, Decimals, and Percents

Students compare and order rational numbers by converting between fractions, ratios, decimals, and percents.

Standard 3: Rational Numbers

Students add, subtract, multiply, and divide rational numbers.

Students use order of operations to simplify expressions.

Standard 4: Geometry

Students identify two and three-dimensional geometric figures.

Students use the coordinate plane to plot points and graph lines and shapes.

Standard 5: Formula Usage

Students identify and apply common formulas.

Standard 6: Variables and Expressions

Students identify and use variable representation to simplify, evaluate, and translate algebraic expressions.

Standard 7: Integers

Students add, subtract, multiply, and divide integers.

Standard 8: Equations

Students write, translate, and solve equations and proportions with variables on one side.

In all of the standards students use problem-solving skills: they choose how to approach a problem, they explain their reasoning, and they check their results to determine if they are reasonable. Throughout, students investigate, describe, and identify patterns. Students should read text, data, tables, and graphs with comprehension and understanding. Their writing should be coherent and they should use correct mathematical vocabulary. Connecting mathematical concepts includes linking new ideas to related ideas learned previously and helping students to see mathematics as a unified body of knowledge whose concepts build upon each other. Students should connect their mathematical learning to appropriate real-world contexts.