



Alignment of Virginia State Standards with Solve It!

STANDARD	DESCRIPTION	ALIGNMENT WITH <i>SOLVE IT!</i>
MATHEMATICS STANDARD 1	Mathematical problem solving	<ul style="list-style-type: none">• Paraphrasing (“recognize and create problems from real-life data and situations within and outside mathematics”)• Hypothesizing (“apply appropriate strategies to find acceptable solutions”)
MATHEMATICS STANDARD 2	Mathematical communication	<ul style="list-style-type: none">• Reading (“... reading, writing, and listening to mathematics will help students to clarify their thinking...”)• Visualizing (“students will use the language of mathematics, including specialized vocabulary and symbols, to express mathematical ideas precisely”)• Practice with Peers (“representing, discussing... mathematics will help students to clarify their thinking and deepen their understanding...”)
MATHEMATICS STANDARD 3	Mathematical reasoning	<ul style="list-style-type: none">• Hypothesizing (“apply inductive and deductive reasoning skills to make, test, and evaluate mathematical statements and to justify steps in mathematical procedures”)• Checking (“use logical reasoning to analyze an argument and to determine whether conclusions are valid”; “evaluate mathematical statements”)• Discussion of Solution Paths (“use logical reasoning to analyze an argument and to determine whether conclusions are valid”)
MATHEMATICS STANDARD 4	Mathematical connections	<ul style="list-style-type: none">• Visualizing (“through the application of content and process skills, students will make connections between different areas of mathematics”)
MATHEMATICS STANDARD 5	Mathematical representations	<ul style="list-style-type: none">• Paraphrasing (“represent and describe mathematical ideas, generalizations, and relationships with a variety of methods”)• Visualizing (“move easily among different representations —graphical, numerical, algebraic, and physical—and recognize that representation is both a process and a product”)

