The Game of Bridge

Bridge is a game full of strategy and tactics.
It's part science, part math, part logic, part reason.
Bridge embodies cooperation, logic, problem-solving and has even been linked to higher test scores among children .
Bridge is also a partnership game.
Trust, communication and patience are the essential attributes of winning at bridge.

Mental and Social Skills
• Partnership
• Teamwork
• Communication
• Logic
• Inferential Reasoning
• Problem Solving
• Social Interaction

Mathematical Applications
• Numbers and Operations
• Data Analysis
• Probability
• Algebra
• Problem Solving
• Reasoning and Proof

MATHEMATICAL APPLICATIONS OF BRIDGE

Duplicate Bridge is a game of mathematics.
The game is a vehicle for introducing concepts such as probability, percentages, data analysis, reasoning and proof, assessing value and applying this assessment to problem solving, and practicing inferential reasoning skills.

Numbers and Operations: Students incorporate multiple evaluation methods to assess the value of their hand as well as their partner's and how to weigh these values.

Data Analysis and Probability: Students confront situations in each hand (game) which require them to assess the probability of certain outcomes and make decisions accordingly.

Algebra: Players reason from the communication skills learned in the bidding (auction), the value of their hand (a), plus the value of their partner's hand (b), must equal a specific total (c). Therefore, decisions are then made to achieve their goals.

Problem Solving: Each hand (game) amounts to a set of problems that must be evaluated and re-evaluated in the span of a few minutes

Reasoning and Proof: Based upon communications skills learned during the teaching process, students reason that they can achieve a stated goal (contract), which they set out to prove. Flaws in the proof result in scoring adjustments

Communications: Students are taught the 'language' of bridge which they use to communicate the value of their cards, formulate a goal (contract) and set out to prove.