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.