

CHALK TALKS

Math



A TEAM-UP TO: 2 students from each grade level.

CHALK TALKS are short, 4-minute talks about a math topic. Tradition would have these talks given using a chalkboard in front of judges, thus the name Chalk Talk. Students should pick a topic from the list of suggested topics below, study about that topic, and prepare their Chalk Talk to be shared with judges to be evaluated. Students may use any platform to prepare their talk. Also, students may use any resources they have available to them to deliver the talk - paper/pencil, whiteboards, chalkboards, Google slides or PowerPoint, manipulatives, etc.

Judges will evaluate the Chalk Talk in various areas such as appropriateness of topic, clarity of presentation, depth and breadth of understanding, effective use of resources and of presentation quality as indicated in the rubric linked here. However, the finalists and winners will be determined primarily based on the rankings of the speakers by the judges. Therefore, after having heard all of the talks each judge will individually rank the speakers.

Suggested Chalk Talk Topics

- What does it mean to reason proportionally?
- Using a ratio table to multiply, divide, or solve proportions.
- Conceptual understanding of place value (10-to-1 relationship).
- Using Tape Diagrams to visualize solving percent or proportion problems.
- Conceptual understanding of solving equations.
- Connecting multiple representations of equations
- Using a visual model to understand/represent division of fractions.
- Archimedes (or other mathematicians)
- Approximation of the circumference of a circle.
- Demonstrating various shapes created by slicing 3D shapes.
- Conceptual understanding of probability.
- What role does chance play in the statistical process?
- Ways to use numerical data from random samples to draw informal comparative inferences about two populations.
- Geometric representations of irrational numbers.
- What do you know about the square root of 2?
- Developing understanding of rational exponents.
- Understanding solutions when circles intersect with circles.
- Connections between Algebraic and Geometric Transformation.
- Proving the Pythagorean Theorem