

## Math Quest

<b>LEVEL:</b>	High School
<b>DESIGN TYPE:</b>	Impromptu
<b>DESIGN TEAM COMPOSITION:</b>	2 – 4 students per team

### DESIGN CHALLENGE:

Your challenge is to solve a set of challenging, non-routine problems that will require core mathematical knowledge, creative, deductive abilities, and collaborative reasoning skills. The design challenge is designed to introduce, develop, and foster the use of various strategies to solve exciting and complex mathematical problems in a Jeopardy style format. A successful design is measured by the number of correctly answered questions.

### MATERIALS:

The following impromptu materials are provided by Colorado MESA:

- 1 pencil per team member
- 1 answer sheet per team

### CHALLENGE RULES:

Teams will be given a Math Exam comprised of Algebra, Geometry, Trigonometry and Pre-Calculus Questions:

- Teams will be allowed as much time as needed to finish exam, with a cut off time of 12:00 PM for any submissions.
- Each team will have a set time to think (silently) about the program and then additional time allocation to solve the problem as a team.
- Teams are not able to leave the testing room after the exam has started, and until the exam has been submitted.
- Books or any other resource materials cannot be used during the event.
- An answer cannot be changed or altered once it has been submitted.
- Should a student not show up on the day of the competition, the team will compete with the remaining original team members.

### SCORING:

Teams are scored based on the number of correct responses. No penalty for incorrect answers. No partial credit. Awards will be given for 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> place teams.