

## Team Math Relay

**LEVEL:** High/Middle School

**DESIGN TYPE:** Impromptu

**DESIGN TEAM COMPOSITION:** 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 head to head style format.

### MATERIALS:

The following impromptu materials are provided by Colorado MESA:

- 1 pencil per team member
- Math problems per station

### CHALLENGE RULES:

Teams will be given a predetermined math problem at 6 different stations.

- Two Teams will compete head to head in a race style format.
- Teams will start simultaneously at one station. Once time has started each team will solve the initial problem and ring a bell upon completion. Once the correct answer is verified by the judges the team can then advance to the next station. The first team to complete all six problems will advance to the next round, and the other team will be eliminated.
- Books, calculators or any other resource materials cannot be used during the event.
- If the answer to any question is incorrect the team will be given the opportunity to advance to the next station, although all stations must be correctly completed to win.
- Should a student not show up on the day of the competition, the team will compete with the remaining original team members.

### SCORING:

Awards will be given for 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> place teams.