

Laser Maze Scoring

Challenge

Science North is interested in hiring a new security team to develop a protective laser system for their rare gem collection. This collection has eight rare gems and the extremely valuable “Oppenheimer Blue” Diamond, the world’s largest blue diamond.

The team with the best score will be hired by Science North to create their security System.

Scoring

Company /3
(1 point each for a logo, name and slogan)

Planning /3
(1 point for including all requirements, 1 point for use of the law of reflection, 1 point for neatness)

Building /3
(1 point for accuracy, 1 point for 9 or fewer mirrors, 1 point for laser reaching sensor)
(+ 2 points for use of a concave mirror)

Safety System /5
(1/2 point for protecting each gem, 1 point for protecting the diamond)

Final Design /3
(1 point for having all requirements, 1 point for use of the law of reflection, 1 point for neatness)

Presentation /3
(1 point for presenting, 1 point for use of science vocabulary, 1 point for effectiveness)

Final Score /20