

MARBLE EXPEDITION

OBJECTIVE

Build a glass marble roller coaster using paper.

MATERIALS

Cardboard, Chart Paper, fevicol, tape.

SPECIFICATIONS

1. Base area should not be more than 50cm X 50cm.
2. Maximum height of the model from the base should not be more than 100cm.
3. Length of track should be in between 200cm to 250cm.
4. Width of the track should be in between 1.5cm to 2cm.

EVALUATION OF POINTS

1. Time

Team will be given points based on time, the track holds the marble.

For example, if the track holds the ball for 30 seconds, the team will be awarded 30 points.

2. Free Fall

Presence of a free fall in the track will award you points. Points for free fall will be awarded on the basis of the following formula.

$$\text{Points} = (h/H) * 10$$

Where, h=height of free fall in your model

H = Maximum height of free fall in whole competition

3. Start Height Bonus

For 5cm less height than the maximum height (i.e. 100cm) 1 point will be awarded.

Maximum points that can be awarded will be 5.

For example, Height of your model is 90cm then, 2 points will be awarded to your team.

4. Creative Points

Up to 25 points can be awarded for innovative and creative construction. Inclusion of entities like funnel, vertical loop, consecutive horizontal loops and any other such innovations.

5. Points for annotations(5 points)

That's not all of it. Your model needs a name too. Does the name and design of your model support the theme? Is there a coolness or cleverness factor in your name?

RULES

1. Teams should consist of maximum four members.
2. Teams are not allowed to touch the model after the ride begins.
3. Decision of the judges will be final.
4. Use of materials other than specified above may attract disqualification. For any queries feel free contact the undersigned organizers.
5. Chart paper should be used for making tracks and cardboard for making the base of the structure.