

RACE OF MAGLEVS

Task

Teams will have to build the fastest Maglev vehicle possible and track for it.

Arena

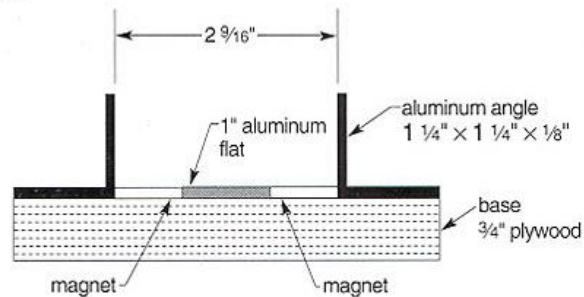
The length of the track is 4m.

Machine Specifications

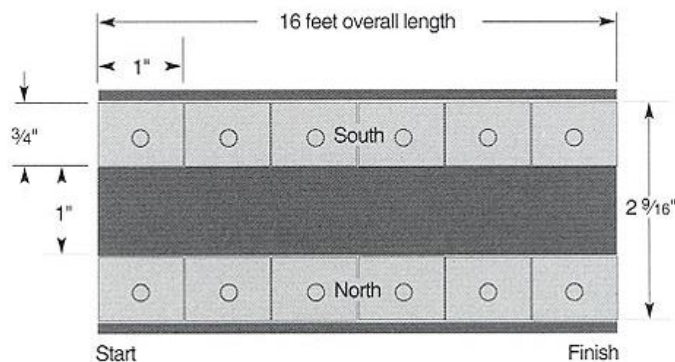
For Track –

All tracks used in the event are 4 meters in length, having two parallel lines of 1 inch long by 3/4 inch wide ceramic magnets. The two lines are spaced 1 inch apart, forming a magnetic track 2-1/2 inches wide. Sides are 1 inch aluminum angles, spaced 2-9/16 inches apart and centered on the magnetic track.

Side View



Top View





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For Vehicle –

Vehicle suspension must be 100% magnetic levitation. Vehicles must not be less than 6 inches in length. There is no height restriction. Magnets on the vehicles should be two parallel lines of 1 inch long by 3/4 inch wide ceramic magnets. Magnetic polarity and vehicle width must be compatible with track specifications.

Event Rules

1. *A Team can have atleast two and max. four participants.*
2. *If the train gets de-railed, the team will be disqualified.*
3. *The train will have to cover a total distance of 16 m.*
4. *Vehicles may not use any of the following:*
 - a.) *Sling Shot Propulsion*
 - b.) *CO2 Cartridges*
 - c.) *Compressed Air*
 - d.) *Rocket Engines*
 - e.) *Flammable Fuel*
 - f.) *Model Airplane Engines*
 - g.) *Explosive or Pyrotechnic Devices*
 - h.) *Open Flame or other forms of combustion*
5. *The vehicle must operate without being pushed, touched, or otherwise interfered with once in place at the starting position of the track.*
6. *Any materials hazardous to human health may not be used.*
7. *Teams having lowest run times will be selected as finalists.*

Judging Criteria

There will be four laps of 4 metereach, the judgment of positions will be based upon the minimum time taken by the team to complete all four laps.

Provisions at Competition Site

Area/Space for track.

Faculty Coordinator Details

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Student Coordinator Details

- 1.
- 2.