CONTRAPTION!!

**New ideas create a whole new world. Discover a new idea and shape it with your talent. Unveil the scientist in you by presenting your ideas in this competition.**

description

Use your knowledge of physics and energy conservation to make a working model based on energy conversions and accomplishes the given tasks. The idea is to build a mechanism depicting efficient conversion of energy. Tasks to be accomplished are given in the RULES section.

category

std 11 to 12

## RULES :

 A)Team of maximum 4 people is allowed.

 B)The contraption should last for at least for 20 seconds and should be a one touch start by any single team member.

 C)A team would be given only two trials with 2 human interventions for each trials excluding human intervention for start.

 D)Before the start, complete contraption must fit in area 1500X1000 mm. The contraption may extend in any direction after the start.

 E)The contraption should end by successfully blowing off 3 candles.(The candles must be blown off without any sort of direct physical contact of any part of contraption with the candle.) The contraption must have at least 3 unique steps showing conversion of mentioned form of energy to other ie chemical to mechanical, electrical to kinetic, potential to kinetic or any other.(Use of batteries upto 12v is allowed but it wont not be counted in conversion of chemical energy to mechanical or electrical.)

 The team will also have to carry out the following tasks at least once :-

 1) Raise any physical part of contraption by at least one metre with reference to its initial height from ground before the start.

 2)Unveil Mindbend logo or "MINDBEND2012" written or printed on paper, cloth or any object and which is easily noticeable. Mindbend logo or "MINDBEND2012" should not be visible to judges and event organizers before the start of contraption and should unveil itself during the run.

 Power Supply will be provided.

 A)All the components/apparatus have to be brought from home. As much as possible, assembly should be done from home itself. Maximum of 30 mins will be provided for assembly and set up at the venue.