

Bridge It!

Event Head: Swaroop, Somashekhar

Use your creativity and brainstorming skills to come up with the most effective way to design and build a bridge with small constraint on materials. Slow and sturdy wins the race.

About the event:

- The event tests the ability to create a bridge with the given set of rules and parameters.
- It encourages the use of creativity and brainstorming to come up with an effective way to design the bridge.

Problem statement:

1). Use of popsicle sticks (aka ice-cream sticks) and fevicol as the adhesive for the bridge construction. (only materials to be used)

2). The bridge dimensions are to be in the range specified below

HEIGHT: 10-15cms

WIDTH: 11-14cms

LENGTH: 55-65cms

3). The bridge should not weigh more than 450gms.

4). There must **at least a width of 7cms and minimum clearance of 9cms** for a toy car to be passed.

6). The bridge has to carry atleast 4kg of load, which is the minimum qualifying criteria for it to go to 2nd round.

7). On the day of the event, bridges have to be brought to the venue for testing its loading capabilities.

8). Loading will be done at the midspan of the bridge, and a support of 3cms at each end is held for the model and tested.

9) No painting or decorating is allowed .

General rules for the contest:

1).The contest will be held in 1 round.

2).Participants should come to venue with their bridges.

3). Teams of less than 5 is encouraged.

4).No person can be a part of more than one team



Sample image depicting how the testing would be done.

Judging criteria:

The teams will be judged based on the efficiency score of their bridge

Efficiency score = (maximum load taken by the bridge at breakage)/(weight of the bridge).

Teams Not adhering to rules will be disqualified.