

Truss the frame

Introduction

“Everything begins with an idea” – Earl Nightingale.

Wissenaire provides you the greatest platform to express your innovative ideas. A truss is an assembly of members such as beams, connected by nodes, that creates a rigid structure. In engineering, a structural member usually fabricated from straight pieces of metal or timber to form a series of triangles lying in a single plane. In this participant have to build a truss bridge with the material provided.

Event format

The following materials are provided

- 100 Ice-cream stick
- Fevicol

Rules and regulations

- each team can have a maximum of 2 members
- No two teams must have a common member
- The event is open to all, students of any college/branch can participate.

Bridge rules

- Dimensions limit
 1. Length: 30-40 cm
 2. Breadth: 7-11 cm
 3. Height: 0-15 cm
- The weight must be less than 200g.
- The sticks can be altered physically by notching or cutting at any angle.
- The overlapping of one stick over the other should not exceed 20%.
- Doubling of sticks is not allowed.
- No glue other than the one provided can be used.

Evaluation

- Bridge strength is evaluated by adding weights.
The bridge that has the MAXIMUM EFFICIENCY wins. (The loading will be stopped when any PHYSICAL DEFORMATION is observed)

Efficiency = Maximum wt. sustained before breaking/selfweight of truss.

(For Innovative designs, additional points will be awarded.)

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