



Activity name: MATHEMATICS IN ARCHITECTURE

Class: 11TH & 12TH

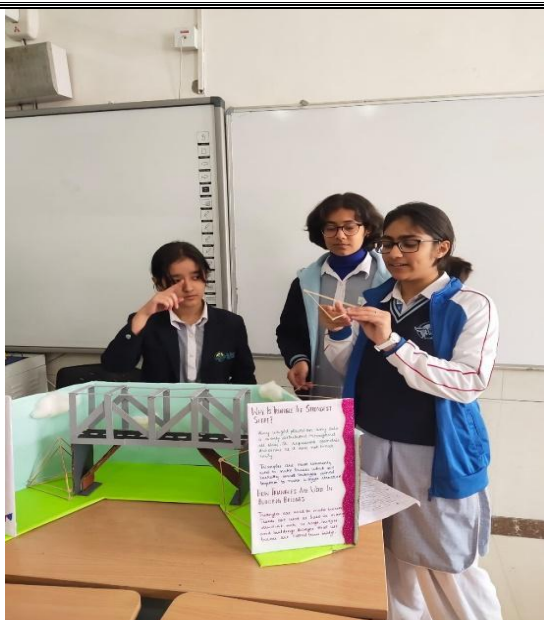
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Description:

A triangle is basically a polygon with 3 edges and 3 vertices. The triangle itself is one of the strongest shapes and if were to arrange them according to strength even further the strongest in the types of triangles would be – equilateral, isosceles and scalene. Triangle is such a strong shape because any weight placed on any of the sides of a triangle gets evenly distributed along the other sides hence making it sturdier compared to other shapes such as rectangles and squares. To show the importance of triangles in architecture. The model hence created is a bridge, more specifically a truss bridge. Bridges combine multiple triangles; these combined triangles apply compression and tension in different places creating a stable structure that bear the load easily at the surface. A truss you might ask is a combination of multiple triangles that create a very strong structure.

Glimpses:





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