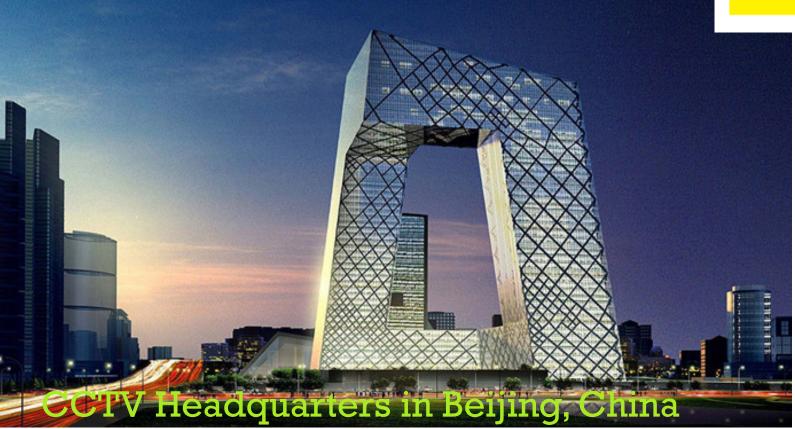
+ Structures & Spatial Awareness

2 INTERPRETATION





+ Structures react to gravity loads in many ways, but there are two main forces at work:

COMPRESSION

 Objects are getting PRESSED/CRUSHED

TENSION

Objects are getting PULLED



COLUMN

A COLUMN is a vertical linear element used to support a beam, floor, or roof

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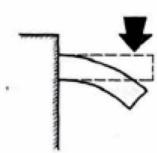


A BEAM is a horizontal linear element spanning across an opening, supported at both ends











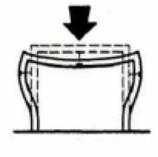
CANTILEVER

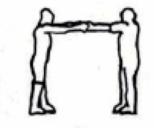
A CANTILEVER is a horizontal structural element supported only at one end



HAT WILL

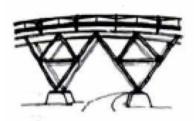


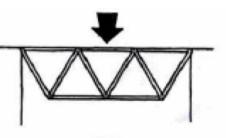


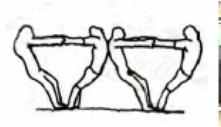


FRAME

A FRAME is a rectangular arrangements of linear structural elements.

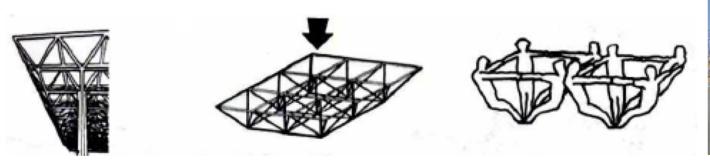






TRUSS

A TRUSS is a 2-dimensional triangular arrangement of linear structural elements.







A SPACEFRAME is a 3-dimensional triangular arrangement of linear structural elements.



Spatial Awareness

Photo: the most crowded classroom (221 students) in the world, in England, London. Aren't you glad you don't go here?

Understand how you relate to space in different areas of your school. Measure the space first, and then find out how many people it can hold.

(Teachers: more detailed instructions and additional activities were sent as handout)