



### ***Terms to Know***

- ***Structure Design***

#### ***Truss***

A group of members arranged geometrically to make a lightweight but strong structure. (One side of a bridge or tower.)

#### ***Member***

One part or piece of a truss.

#### ***Span***

Distance between two points.

#### ***Compression***      $\longrightarrow \longleftarrow$

An inward force that acts upon the top portion of the lower member of the truss/bridge.

#### ***Tension***      $\longleftarrow \longrightarrow$

An outward (stretching) force that acts upon the bottom portion of the lower member of the truss/bridge.

#### ***Shear***

A force that cuts or severs. To become broken as a member under the action of a traverse or passing through force.

#### ***Torsion***

A twisting or turning force.