

Bridge Terms To Know

Bridge Terms to know

- **Truss**

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

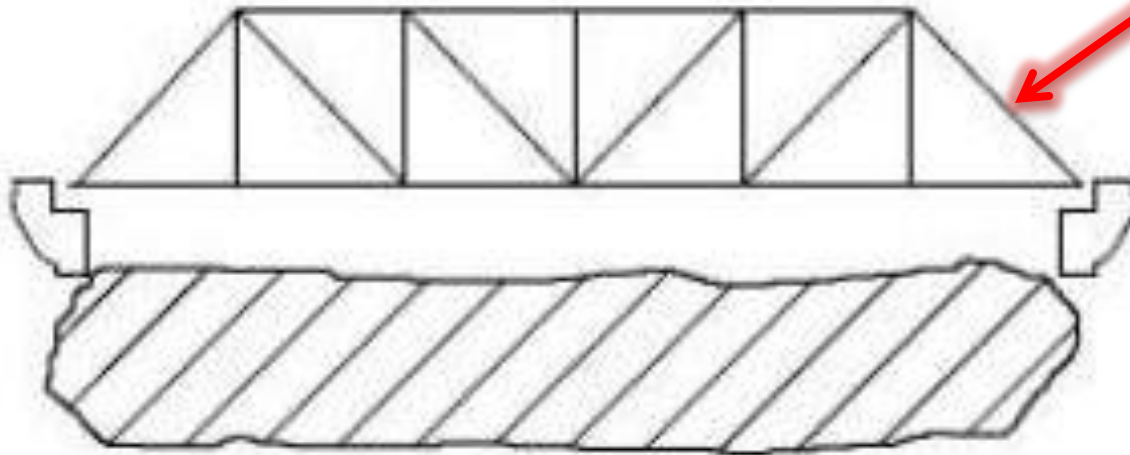
Bridge Terms to know

- **Member**

- One part or piece of a truss.

Bridge Terms to know

- **Member**



PRATT TRUSS

Bridge Terms to know

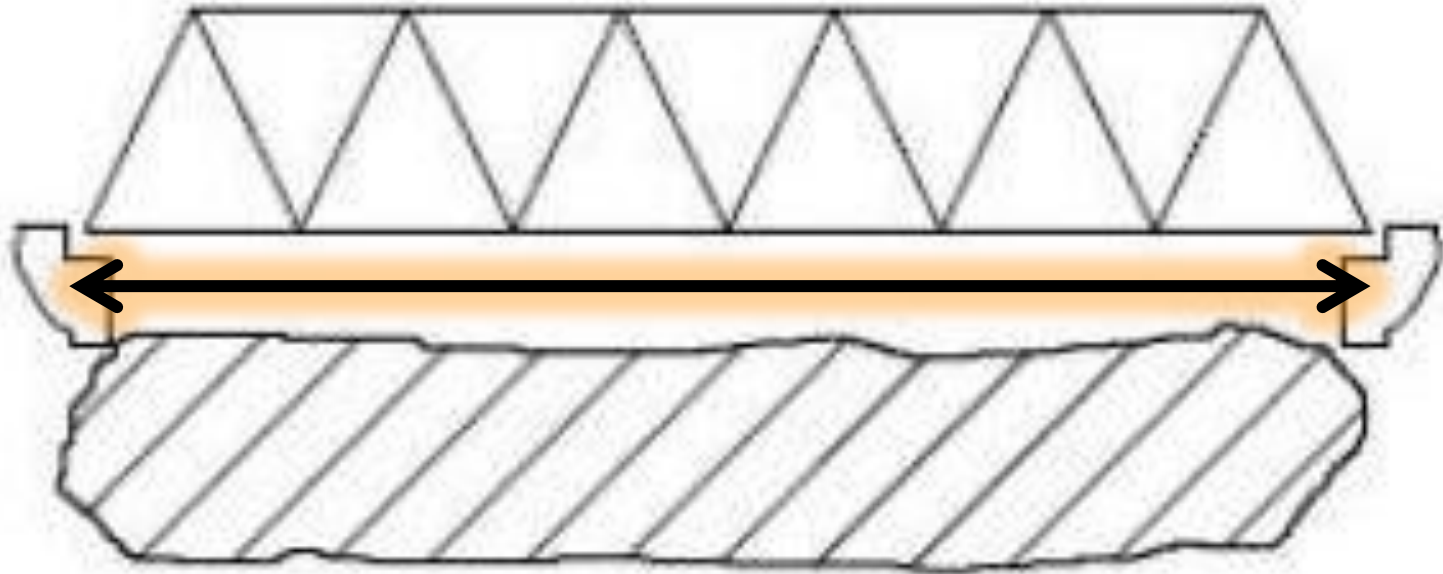
- **Span**

- Distance between two points

Bridge Terms to know

- **Span**

- Distance between two points



WARREN TRUSS

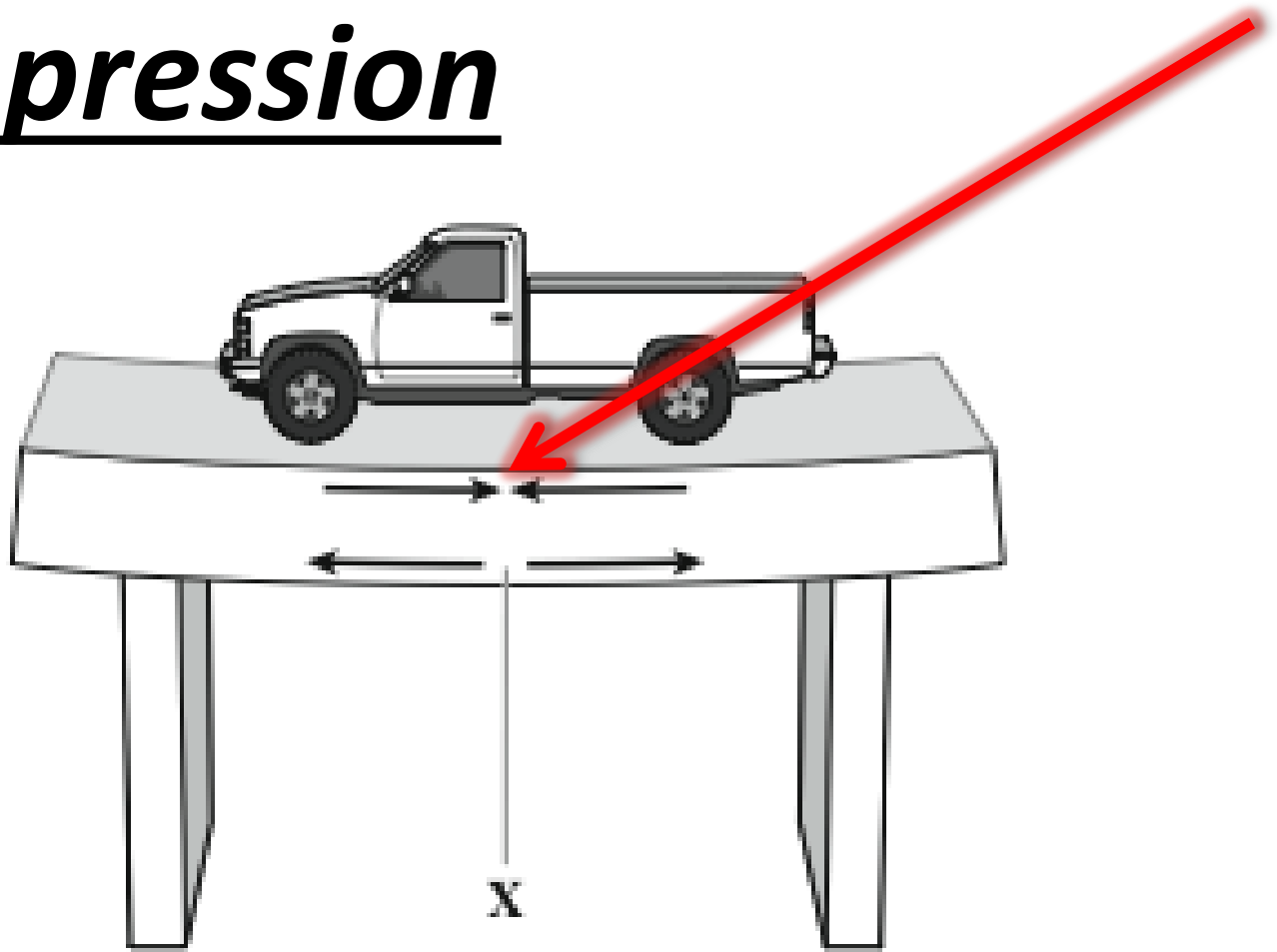
Forces that could
make your bridge
collapse

Bridge Terms to know

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

Bridge Terms to know

- ***Compression***



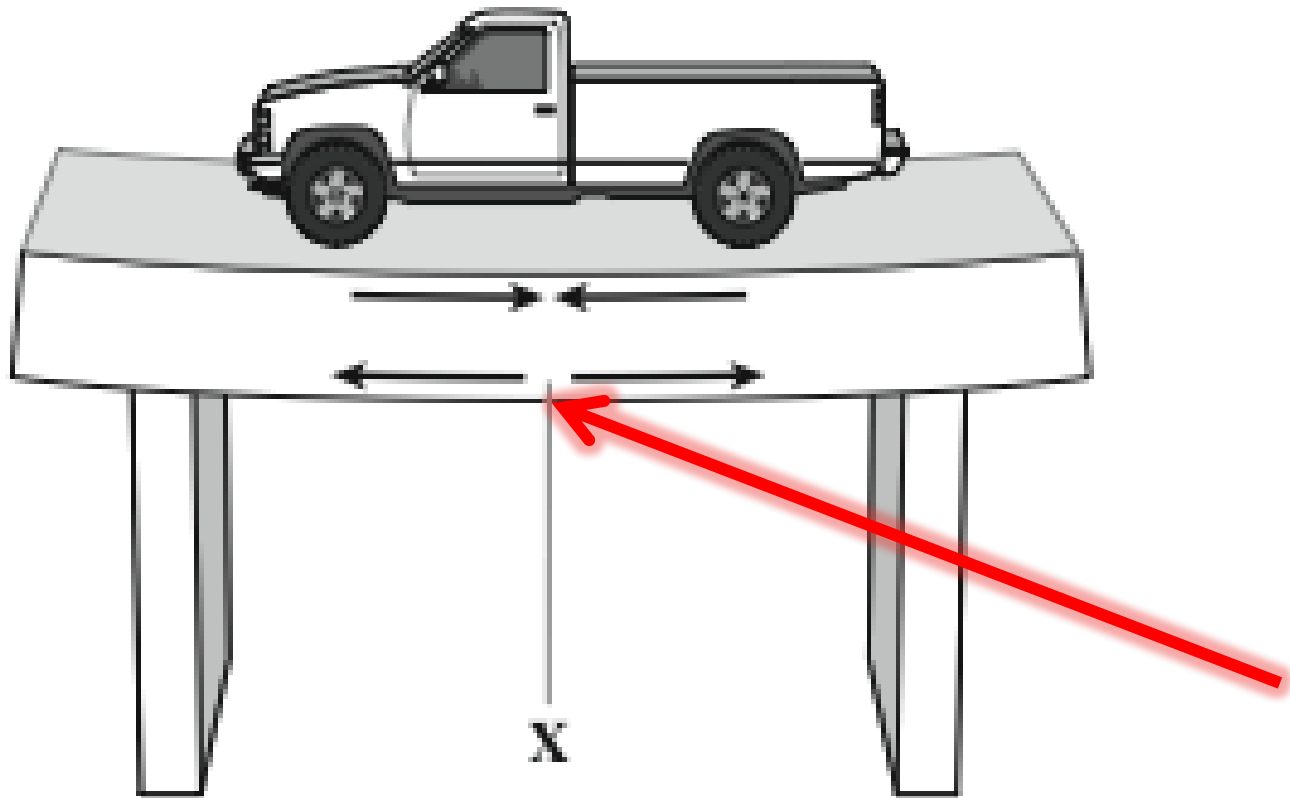
Bridge Terms to know

- ***Tension***

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

Bridge Terms to know

- ***Tension***



Bridge Terms to know

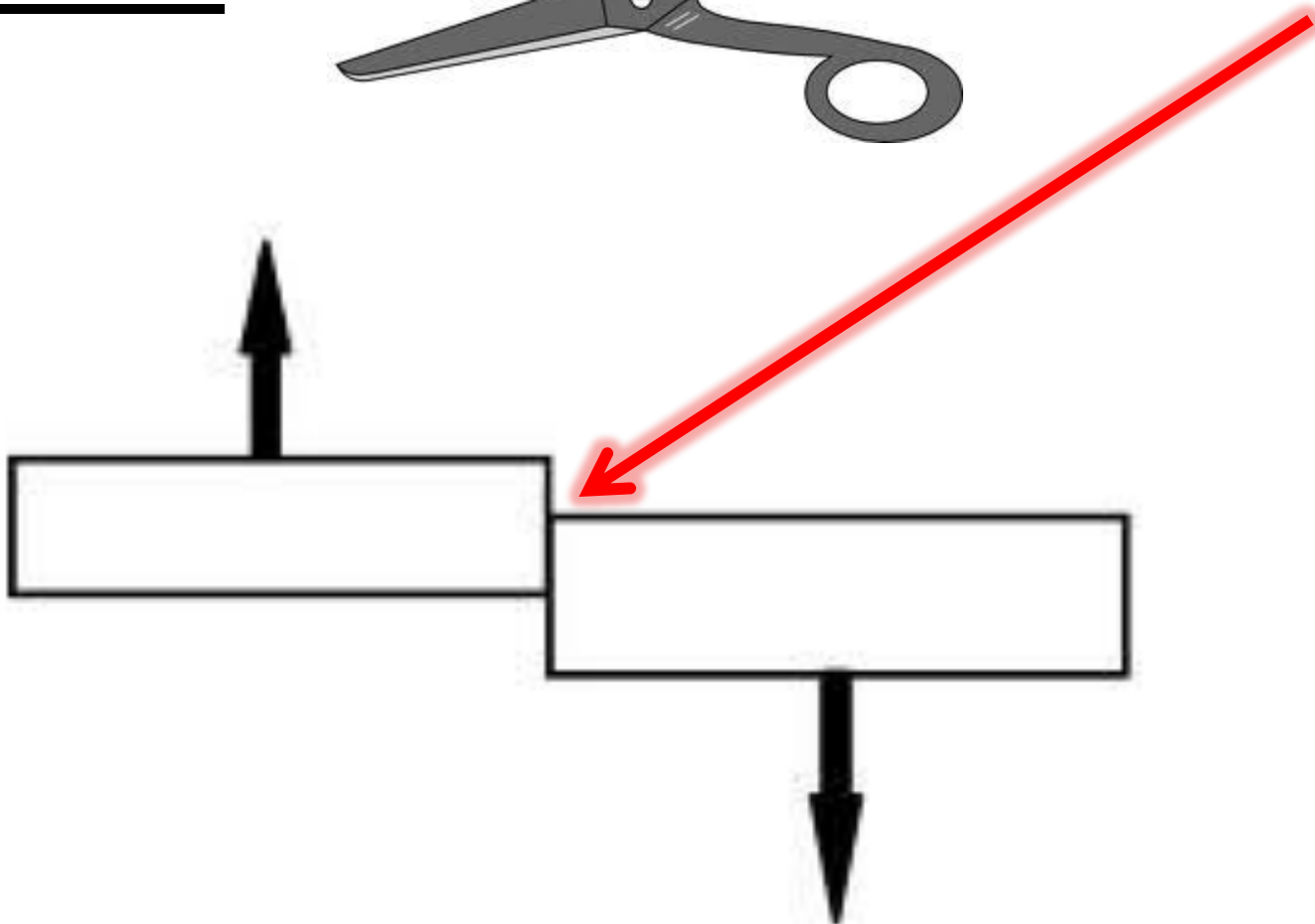
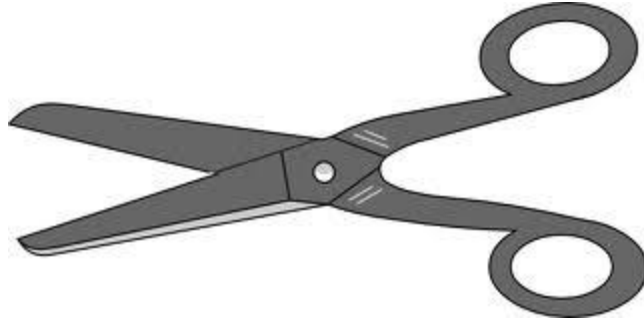
- *Shear*

- A force that cuts or severs.

- To become broken as a member under the action of a traverse or passing through force.

Bridge Terms to know

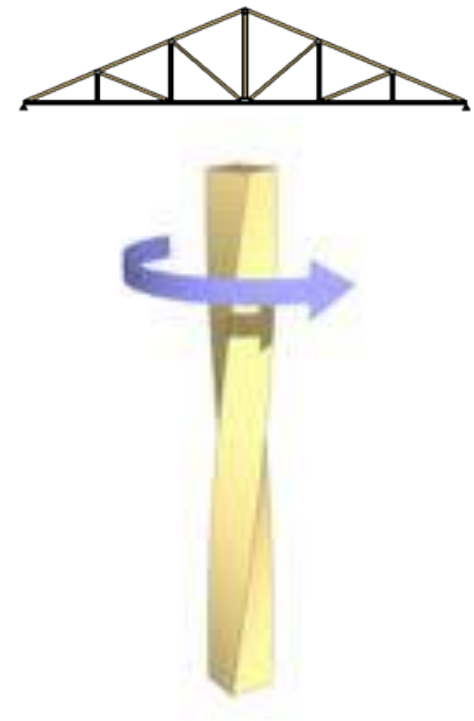
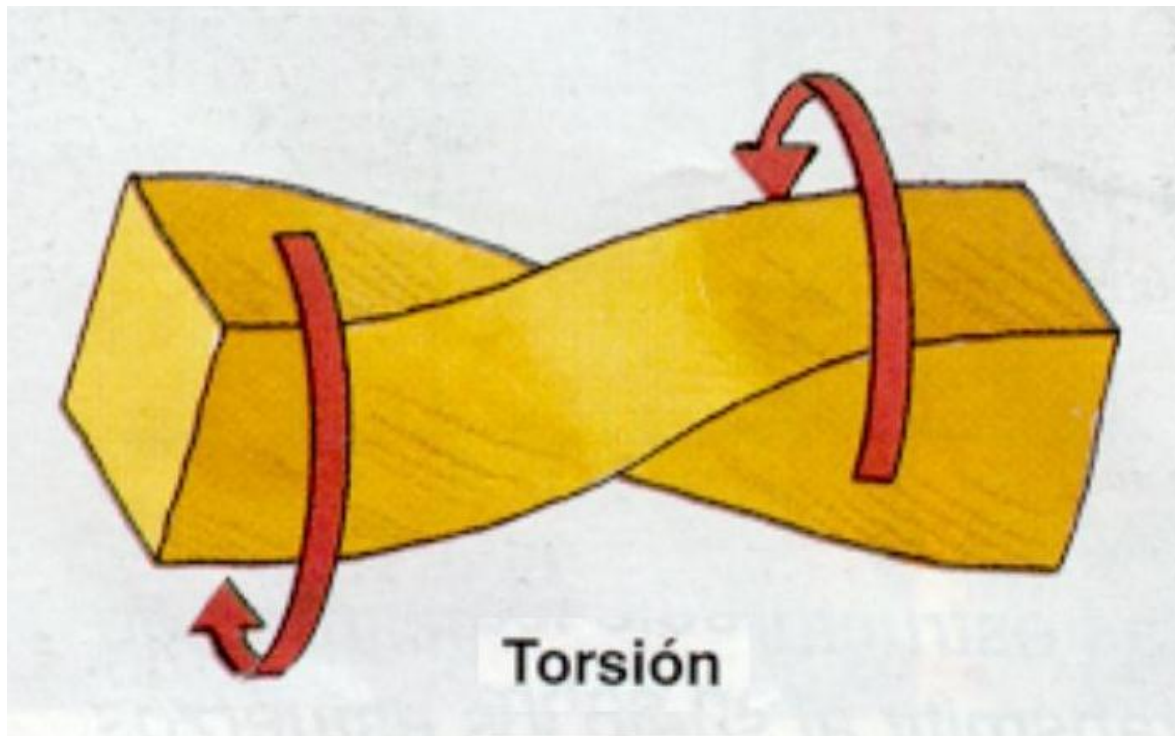
- *Shear*



Bridge Terms to know

- **Torsion**

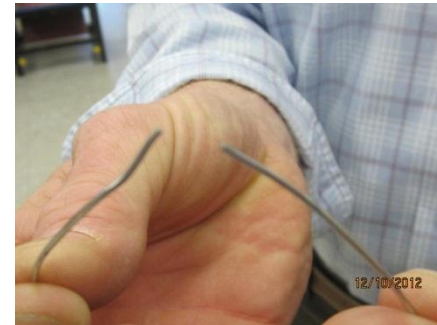
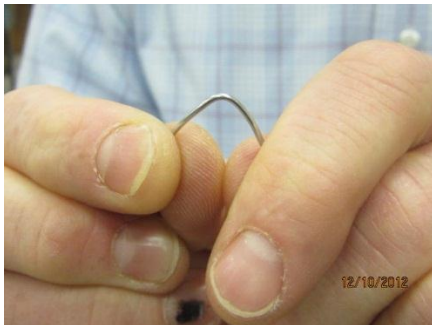
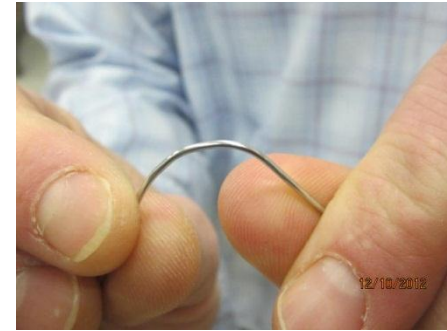
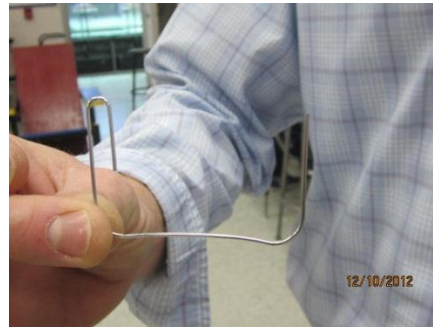
—A twisting or turning force



Bridge Terms to know

- **Fatigue**

–Progressive fracture



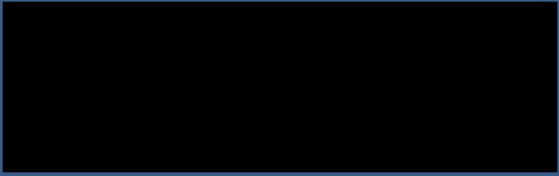
Bridge Terms to know

- *Creep*

- A slow progressing, permanent deformation that results from a steady force acting on a material

Bridge Terms to know

- Creep



After 2 years



Permanent deformation