Name:

Bridges / Structural Stresses Worksheet

* Bridges and Forces slideshows in S drive, Team Folders, Industrial Technology, Construction

Bı	rid	ges	

1.	List the three main types of bridges. a. b. c.		
2.	The piers at each end of a beam bridge may also be called an		
3.	Modern beam bridges are good for (circle one) short or long spans.		
4.	What is the advantage of a truss beam bridge compared to a solid beam bridge?		
5.	The Romans are credited for this type of shape		
6.	A bridge is capable of crossing the greatest span.		
7.	Suspension bridges have added to strengthen and support roadways.		
8.	True / False Most long bridges utilize one type of design or style.		
	List and define the basic forces that act on bridges. a. b. c. d.		
2.	causes materials to bend.		
3.	The of a bridge will have compression stress.		
4.	Wind may cause this stress.		
5.	True / False Both tension and compression may act on a bridge at the same time.		

6. **True / False** Cables in a suspension bridge often have compression forces acting on them