

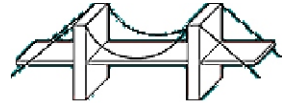
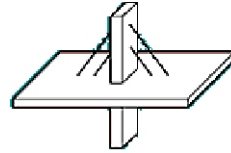
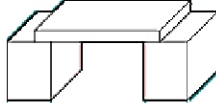
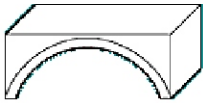
Names: \_\_\_\_\_

# BRIDGES

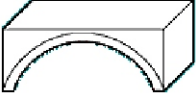
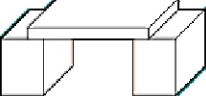
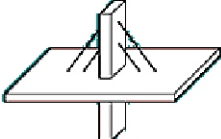
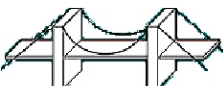
Use this worksheet to answer the questions from the Bridges Web Quest activity. Remember, you only need one Worksheet per team of students. Write all of your names at the top of the page.

**1** What type of an Engineer builds bridges? \_\_\_\_\_.

## 2 Name That Bridge



## 3 Bridge Strengths & Weaknesses

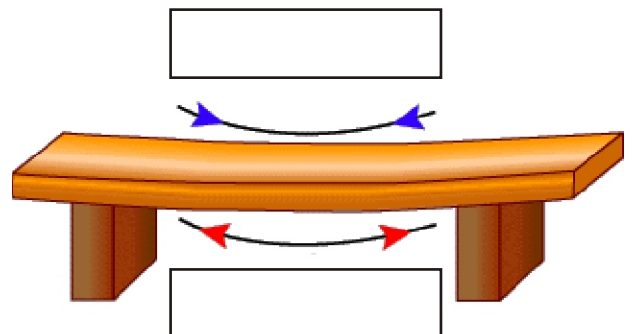
Bridge	Span	Construction Material	Advantages	Disadvantages
				
				
				
				

## 4 Forces on Bridges

Define the following:

Compression: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Tension: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



Names: \_\_\_\_\_

# BRIDGES

Make a drawing of the following types of trusses:

## 5 Sketch Truss Designs

Deck Truss



Through Truss



Arch Type



Baltimore (Pratt) Truss



Double Warren Truss



Wichert Truss



Suspension  
or  
Cable-Stayed



## 6 4 Describing Factors

Span: \_\_\_\_\_

Material: \_\_\_\_\_

Placement of Travel Surface: \_\_\_\_\_

Form: \_\_\_\_\_

## 7 Forces Lab

Which material is the strongest in compression? (circle one)

Wood   Plastic   Aluminum   Brick   Concrete   Reinforced Concrete   Cast Iron   Steel

Which material is the strongest in compression? (circle one)

Wood   Plastic   Aluminum   Brick   Concrete   Reinforced Concrete   Cast Iron   Steel

Which material is the strongest in compression? (circle one)

Wood   Plastic   Aluminum   Brick   Concrete   Reinforced Concrete   Cast Iron   Steel