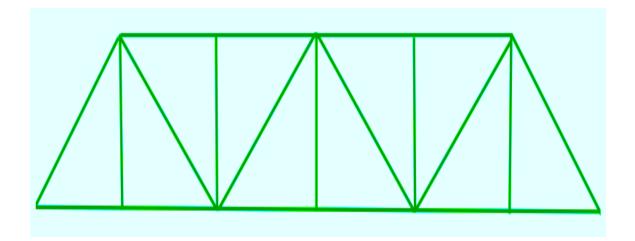
Name:	Date:	

## **STEM Assessment Study Guide**

Label the following parts:

- A. Joint
- B. SpanC. Beam
- D. Column
- E. Deck



Why do people use bridges?				
Explain the difference between compression and tension forces.				

Use the space below to draw a truss and label the following:					
В. С.	Upper Chord Lower Chord Joint Web				
List the	e 5 types of bridges and draw a small picture of each:				
A.					
В.					
C.					
D.					
E.					

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Match	the following words to their defi	nition and fill in the miss	ing word.	
	Column			
	Load Chord			
	Beam			
	Web			
F.	Member			
1.	<u>:</u>		acting on a bridge.	
<u>2.</u>	: <u> </u>	Α	structure member	
	strong in supporting	vertical loads.		
3.		· A vertical	structural element, stror	าด
<u> </u>	in		ser acturar cremone, ser cr	-€
		<u>-</u>		
4.	<u></u>	: Either	of the two principal	
	members of a truss e			
<u>5</u> .	: <u>A</u>	or_	in the	
	frame of a bridge.			

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Name:		Date:		
6	: <u>The systen</u>	n of members		
the lower and upper chords of a truss.				
Identify the testab	ole question:			
A. Bridges are sti	rong because of the	eir materials.		
B. If I add more t	russes then the bri	idge will be stronger.		
C. How will chan	ging the bridge de	sign affect the load that a		
bridge can car				
D. Which bridge	is strongest?			
Identify the hypot	hesis statement:			
A. I think that by	adding more truss	s supports to the bridge, it wil	l	
_		sses help fight tension and		
compression f	orces.			
B. I should add m	nore trusses to the	bridge to make it stronger.		

- C. Add trusses to make the bridge stronger.
- D. If I add trusses it will be stronger.