

Suspension Bridge

Directions: Please build the bridge, following the directions before answering the questions.

1. What is the difference between tension and compression?
 - a. tension _____
 - b. compression _____
2. Compare and Contrast the arch bridge with the suspension bridge?

How are they different?

How are they the same?

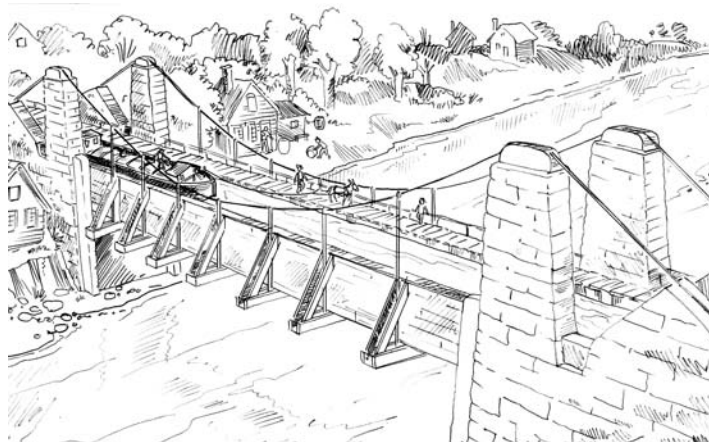
_____	_____
_____	_____
_____	_____
_____	_____

3. What weather related forces could add stress to a suspension bridge?

_____ and _____

W _____

4. Benefit of using cable versus other materials?



Build a Crane

1. Which two simple machines make up a crane?

_____ and _____



2. Why is moving heavy loads on water easier than moving them on roads?

3. How is a Derrick Crane different from a Tower Crane?

Bonus:

_____ move cargo.



Directions: In order to answer all questions you need to read the instructions for each building activity, build the activity, and read the history panel.

★★★★★

Use the circled letters to solve the bonus puzzle at the end.



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