

Final Grade # 1	Final Grade # 2
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Hour \_\_\_\_\_

**STRUCTURAL ENGINEERING DB # 1 – Historical Bridge**

1. ACCURACY ---Was the bridge constructed within the given parameters?	# 1	# 2
(5) must use only the wood supplied by the instructor		
(5) must have a minimum passageway of 3 inches wide inside and a maximum of 3.5 inches outside		
(10) must be between 2 and 3 inches high		
(5) must have a span between 8 to 10 inches		
(5) must have used high quality techniques --pleasing to the eye		
(20) withstand structural testing of at least 6 pounds		
2. QUALITY - Was the general appearance and construction of the bridge of sufficient quality?		
(10) Only a small amount of glue was used.		
(10) The edges are cut clean and straight.		

3. RESEARCH (30)—Did the team provide ample evidence of research conducted on bridge design. (SIX Q total)

1. How were bridges in the past built?
2. What are some trusses styles that were commonly used on historical bridges?
3. How much payload could the various truss types carry?
4. What have been some typical problems in bridge construction and how were these problems addressed in the past?
5. Find **pictures** in the library or on the internet of bridges and examine how these structures are designed.
6. What are the determining factors that should be considered when choosing the bridge type to solve this design brief?

Did the team share the Research questions equally? #1 \_\_\_\_\_ #2 \_\_\_\_\_

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