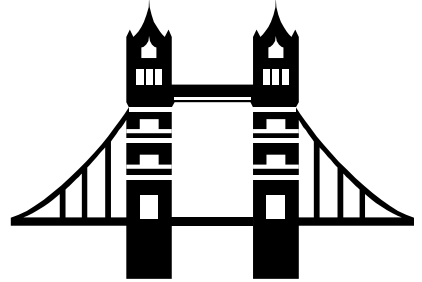


The Super Bridge

Nova Video Guide



1. What is the name of the river to be **bridged**?
2. What is the name of the bridge at **Alton** that needed to be replaced?
3. Name the three general types of bridges that were considered and state their **Pros** & **Cons**.
4. Describe the **specific** bridge type decided upon.
5. What is a **fixed bid**? What are the dangers a company assumes with a **fixed bid**?
6. How accurate are the **foundation contractors** attempting to be in the construction of the piers?
7. Reinforced steel added to concrete is used to reduce _____?
8. What will happen if concrete has too little water in its mixture? What will that cause?
9. How **tall** are the towers? How **long** does the contractor have to complete their construction?
10. How can the weather effect the construction of the towers?
11. What is the most **isolated** job in the construction of the towers?
12. Why did the workers have to **remove** some of the concrete from the towers?
13. What was the problem with **Pier #13**?
14. Each **stay** needs to be tight enough to:
 - a.
 - b.
15. How much will the bridge cost?
16. How many edge **gutters** will be on the road deck? How much do they **cost/weigh**?
17. What was the problem with the stays and **quality** (corrosion) of the cables?
18. List and describe at least 4 problems that caused costly delays in the construction of the New Clark Bridge at Alton

