

Group members names: \_\_\_\_\_

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**Work with your team to develop a design to address the following situations. You will be graded on your thoroughness and effort. Be thoughtful and realistic with your design.**

There is a large, navigable river that connects a port city with the United States largest wheat supply. Several dams are located on the river between the port city and the wheat supply. How would you elevate boats up over the dams to eventually get to the wheat supply, and how would you lower ships returning from the wheat supply to the port city?  
**BONUS POINTS: Can you tell me the river in the United States this situation is based on?**

There is a beautiful large lake located 100 miles from the ocean. The lake is so extraordinary that cruise ships make this area a destination. Currently, tourists must take a three hour bus trip through the jungle to reach the lake. You realize that you could make a significant amount of money if you could provide a link from the ocean directly to the lake so cruise ships can directly access the lake. How will you do this? The lake is 72 feet higher than the ocean. This will create some complications, but the project is still doable. What is your design?