



# MAKER JOURNAL

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

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

List your criteria and constraints before proceeding to **ideate** and **prototype**. Your teacher can help your group set the right distance and amount of water to be transported

Criteria	Constraint
Must transport at least ____ (amount) ____ (unit) of water ____ (distance)	No human contact with the system while the water is being transported.
Data must be collected and recorded in between tests	

**Ideate** Think of the different needs for freshwater transport that you discovered in your research. Record and draw the scenarios. Which one would your team like to try and solve by building a model

## List and draw the needs for freshwater transportation that you have learned about

*Provide freshwater to remote farms in California during the drought.*  
*Transport water on a future moon colony.*



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**Prototype** Choose a real world scenario to model. Write a description of your scenario here. Build your prototype and draw a picture of your model.

**Describe the water transport scenario that your team has chosen to model:**

**Draw a picture of your prototype model:**

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**Test** Measure out the required amount of water and pour it through your model. Record the amount that makes it all the way through the system. Make notes around what needs to be fixed in order to transport all of the water.

Trial #	Amount of water transported (units)	Notes
Example	3 mL	Leaks in our water conduits must be patched
1		
2		
3		
4		
5		
6		