

*Water and Civilizations*

Name \_\_\_\_\_

Please answer these before interacting with any of the content for this week, please answer these 'off the top of your head' do not research the questions, if you don't know try to make a 'best guess'... I am looking for a sentence or two for each of these Primer Questions...

- A. Where does your drinking water come from?
  
- B. What factors affect the quality of your drinking water?
  
- C. What if any problems does Iowa have with respect to water?
  
- D. How many gallons of water do you think you use per day?

**Documentary**

- \_\_\_\_\_ 1. Earth the only Planet in our Solar System covered in water, but only \_\_\_\_\_? \_\_\_\_\_ percent of this resources is fresh water. (1pt)  
A. one                      B. five                      C. ten                      D. twenty
- \_\_\_\_\_ 2. 2500 years ago Egyptian Priests developed and used a Nilometer and cubits to measure (1pt)  
A. money                      B. floods                      C. harvest/yields                      D. stars
3. List the rivers that helped the world's first four major civilizations evolve. (2 pts)  
\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- \_\_\_\_\_ 4. The way we manipulate water, e.g. dams, is changing the plant. True or False, if true justify your response... (3 points)
- \_\_\_\_\_ 5. What percentage of freshwater usage on Earth is used to grow the food we eat? (1pt)  
A. 92                      B. 82                      C. 42                      D. 22
- \_\_\_\_\_ 6. Development of this crop led to disappearance of water in the Aral Sea? (1pt)  
A. Corn                      B. Wheat                      C. Cotton                      D. Olives
7. What drove the overuse of water in the Aral Sea? (2 points)

## **Homework**

8. Use Google Earth to explore the landscape Southwest of North Platte, Nebraska. What pattern do you see? How does this pattern relate to the documentary? What are the connections between Saudi Arabia and the Western U.S.A.? (3 points)

9. Use the following website to calculate your water footprint, (5 points)

<https://www.pbs.org/wgbh/molecule-that-made-us/home/water-footprint/>

A. Document your results

B. Discuss how your results compare to your water usage estimate in the primer questions. Did you find anything that surprised you, yes? What/why?