Water Objective Sheet

Name _____
Date _____ Period _____

Water Supply

1. How much of the planet's water is available for human consumption?
2. Draw and label a diagram of a watershed.
3. Define watershed, tributaries, floodplain, river source, river mouth. Know which direction is upstream and which is downstream.
4. Where does the water in a watershed eventually end up?
5. Describe and explain the unique properties of water.
6. Draw a diagram of the water cycle.
7. What are the differences between surface water and ground water sources?
8. What is an aquifer? What is a recharge zone?
9. Name the aquifer under the pan handle of Texas. What is happening to this aquifer?
10. Describe five ways to increase the supply of water available for human consumption.
11. Where does Houston get its water?
12. What is most water used for?
13. What are subsidence and overdraft?
14. What aquifer is under Houston?
15. What are two methods of desalinating salt water?
16. Why is desalination not used more often to provide water to a community?
17. What are the 6 steps of water purification?
18. What causes flooding?
19. How does Houston cope with flooding?

Water Pollution

20. Identify the water pollutants, their sources and effects (see chart)
21. Describe artificial eutrophication and its cause.
22. What is a pathogen?
23. What is biomagnification? What kinds of pollutants could biomagnify in an aquatic ecosystem?
24. What is the difference between storm drains in the street and the drains that carry water from your sink?
25. What is the difference between point and non-point sources of pollution? Give examples of each kind. Which kind is harder to clean up and why?
26. What are the three things that identify a wetland?
27. What roles does a wetland play in an ecosystem?
28. What is the main threat to our wetlands?
29. Describe how a wastewater treatment plant works. (There are 6 steps)
30. What did the Clean Water Act do?
31. How can YOU protect our water resources in your daily life? Describe 5 ways.

Monday April 21 TAKS review; finalize Earth Day presentation	**Tuesday April 22** EARTH DAY presentations!!!	**Wed April 23/Thurs April 24** Start Water Unit: Watershed notes in the round HW – Answer Obj #1-4		**Fri April 25** Water cycle; Unique properties of water HW – answer Obj #5-8; study for quiz on Monday
Mon April 28 Quiz – Obj #1-8 Notes: Houston's water issues HW – Obj #9-14	**Tues April 29** TAKS day: 10th grade math (normal bell schedule) Drinking Water Purification Lab Hw – Obj #17	**Wed April 30** TAKS day: 11th grade math (normal bell schedule) Quiz – Obj #9-17 Notes – increasing water supplies	**Thur May 1** TAKS day: Science! Pds 4,2,6 meet Quiz – Obj #9-17 Notes – increasing water supplies Energy audit celebration! ☺	**Friday May 2** TAKS day: pds 1,3,5,7 meet Flooding in Houston Energy Audit celebration!
Mon May 5 TEST – Water obj #1-19 Turn in objectives	**Tues May 6** Water pollutants and eutrophication HW – Obj #20-23	**Wed May 7/Th May 8** Wetlands Explain watershed model project Hw – plan watershed model – plan due next class; study for quiz		**Fri May 9** Quiz – 26-28 Sewage treatment HW build model
Mon May 12 Practice Water quality tests HW – Obj #24-28; build model	**Tues May 13** Practice Water quality tests Quiz – Obj #20 HW – dress for field work! Work on model!	**Wed May 14/Th May 15** FIELD WORK!!! Dress for going outside! HW – finish model		**Fri May 16** WATERSHED model DUE!!! Analyze water quality data
Mon May 19 Review Energy and climate	**Mon May 20** Review Air and Waste	**Wed May 21/Th May 22** Review water Senior pd 7 EXAM		**Fri May 23** EXAMS 1,2
Memorial Day NO SCHOOL!	**Tues May 27** EXAMS pds 3,4	**Wed May 28** EXAMS Pds 5,6	**Thurs May 29** EXAM 7th pd (except seniors)	