Name: Date: Class:

Week 3 Questions Answer Key

Water Testing and Measurement			
How many parameters will our water test strips test?16			
2. Name three of the parameters that we will test for. Three of the following: lead, copper, iron, fluoride, bromine, mercury, total hardness, nitrite, nitrate, total chlorine, aluminum, pH, sulfate, total alkalinity, free chlorine, cyanuric acid			
3. A result that is underlined in red indicates that the sample isbeyond the _EPAlimits			
4. The Red Sea Algae Control Test Kit tests fornitrate andphosphate			
5. For the first test of the Red Sea test kit (PO4), do the following:			
a. Begin with17 mL of sample water. b. Add10 drops of reagent A. c. Swirl10 seconds. d. Add2			
For the second test of the Red Sea test kit (NO3), do the following:			
A. Begin with16 mL of sample water. B. Add5 drops of reagent A. C. Swirl15 seconds. D. Add1 level scoop of reagent B. E. Swirl60 seconds with the lid on. F. Add1 level scoop of reagent C (with a different spoon). G. Swirl15 seconds with the lid on. H. Wait9 minutes.			
6. High-range test only if necessary.			
Begin with1 mL of sample water with15 mL of RO water. Then follow Steps B through H from #5 above.			
7. Spectroscopy: The study ofelectromagnetic radiation emitted or absorbed by achemical species.			
8. Spectrophotometry is a type of spectroscopy that measures how muchlight isabsorbed by a chemical substance by measuring theintensity of the light beam that is not absorbed.			



Name: Date: Class:

What we see from color is incident light and absorbed light.	_transmitted	light, the difference between
10. Parts of a spectrophotometer: a. Light source b. Collimator (lens) c. Monochromator (prism dwavelength_ e. Sample solution (in cuvette) f. Detector (photocell_ g. Digital display or meter	or grating) selector (slit))	
The relationship between absorband	ce and transmittance is logarithmic).

