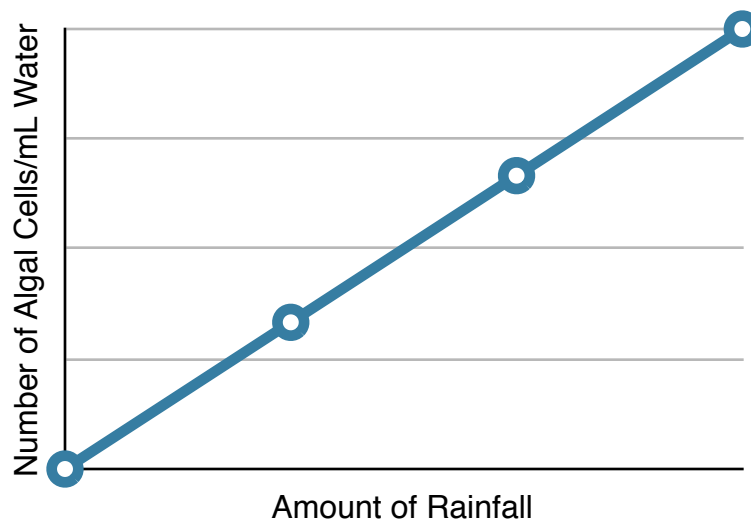


Questions
Detergents and Fertilizers
APES
Lindemulder

1. How did the addition of each solution (nitrate, phosphate, and both) affect the amount of algae in the sample? Why do you think this is?
2. How did the increase in concentration of the pollutants impact the amount of algae in the sample? Why do you think this is?
3. In 1972, in an attempt to alleviate pollution and the effects of pollution in aquatic systems, the US government passed the Clean Water Act. Research the Clean Water Act and explain at least two ways in which it assisted the reduction of aquatic pollution. Also address how you feel it could be further improved.
4. Reduction of environmental pollution begins as an individual effort. How could you and your household help reduce the effects of nitrate and phosphate pollution in your community?
5. Below is a graph showing a relationship between the amount of rainfall in a community and the number of algal cells per milliliter of water found in their local water sources. Explain why you believe the graph is displaying the relationship that it is.



6. You are an environmental consultant hired by a small tourist town containing a number of resorts on a large lake in the center of the community. Recently, the resort owners have been complaining of large fish kills in the lake, which is bad for business. After running a series of tests, you have found no evidence of an increase in toxic chemicals in the lake, but you have noticed a large increase in the population of algae in the lake even during the short time in which you have been performing your study. Explain what you think the possible problem is and a course of action the community could take to further investigate it.