



Eutrophication WORKSHEET 1

Time available: 30 minutes Location: in the classroom		
Why do so many plant organisms grow so strongly in rivers, in the sea, but especially in lakes or ponds?		
Can river water be used to irrigate fields or you think it may harm crops and plants?		
○ YES ○ NO		
What causes the disappearance or the reduction of fish?		
Other questions?		





Eutrophication WORKSHEET 2

Time available: 60 minutes / day (3 days)
Location: in the science lab
Observe the organoleptic characteristics (color, odor, transparency) of the samples of water taken. Describe:
Using the microscope, observe the water sample identifying the algae and the bacteria present. Describe:
Using the pH meter, determine the pH of water samples:
pH:
Using the photometer and reagents available, determine the amount of dissolved O2. Report the data:
Report the data.
Dissolved O ₂ :

Using the photometer and the reagents available, determine the nitrates and phosphates present in the water samples. Report the data:





	PHOSPHATES:
	NITRATES:
Ohse	rve the total number of solids present in water samples:
	Tve the total hombel of solids present in water samples.



Time available: 30 minutes



Eutrophication WORKSHEET 3

Location: in the classroom
What are the components of an ecosystem?
What are the main fertilizers used in agriculture and what are their characteristics?
What do "photosynthesis and respiration" consist of?
What does this mean and which examples can you give of aerobic and anaerobic microorganisms?





What is the general structure of a water purification plant?
What fertilizers are used in agriculture and what are their characteristics?
What do you plan to do if man continues to pollute water without changing his behavior?
What are the possible solutions to the problem of eutrophication in your opinion?