

Homework # 2 Due: February 7, 2011

1. Pick an algae species (include your references) of your choice and identify the following parameters for the select species:

- Growth Measurement Technique
- Optical Density Wavelength
- Relationship between Optical Density and Dry Weight
- Growth Rate
- Doubling Time
- Optimum pH, Temperature, Light
- Special morphological features of the species –image and description

2. The following data was obtained for the growth of *Scenedemus Obliquus*.

Time (Days)	Biomass g/L
0	0.065
1	0.12
2	0.4
3	0.63
4	0.74
5	0.95
6	1.1
7	1.21
8	1.25
10	1.4
12	1.6
14	1.64

- a. Plot the data to determine the growth rate in 1/day.
- b. What is the doubling time in days?