

# BOTANY UNIT 7: CYANOBACTERIA

## LAB REPORT

1. How do algae differ from terrestrial plants? \_\_\_\_\_  
\_\_\_\_\_

2. List the divisions of algae that are members of the following kingdoms.

Kingdom Monera \_\_\_\_\_

Kingdom Protista \_\_\_\_\_

Kingdom Plantae \_\_\_\_\_

3. List 4 characteristics of the Cyanobacteria.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. Draw the following Cyanobacteria.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

*Gloeocapsa*

*Anabaena*

*Oscillatoria*

*Nostoc*

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5. Draw and label Euglena. Label the flagella, pellicle and region of the stigma.

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6. List 3 characteristics of the Euglenophyta.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

7. List 2 characteristics of the Bacillariophyta (diatoms)

1. \_\_\_\_\_
2. \_\_\_\_\_

8. List 3 characteristics of the Dinoflagellata.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

9. Draw diatoms and dinoflagellates in the space below.

Diatoms

Dinoflagellates

10. Describe the ecological significance of diatoms and dinoflagellates.

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11. List 3 characteristics of the Chlorophyta.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

12. Draw the following representative green algae. Label the oogonium, antheridia cells and hold fast of Oedogonium.

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\_\_\_\_\_

*Chlamydomonas*

*Spirogyra*

*Volvox*

*Oedogonium*

13. List the unique characteristics of the Charophyta.

\_\_\_\_\_

\_\_\_\_\_

14. Draw *Chara* labeling the oogonium and antheridium.

*Chara*

15. List 3 characteristics of the Phaeophyta.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

16. List 3 characteristics of the Rhodophyta.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_