

## Key to Algae

1. Cells green or yellow green. Go to 2.
1. Cells having distinct red or purple pigment. Go to 17.
  
2. Cells single; not grouped in a colony or filament. Go to 3.
2. Cells grouped in a colony or end to end in a filament. Go to 15.
  
3. Cells strongly divided with halves connected by a narrow isthmus. Go to 4.
3. Cells entire, not strongly divided. Go to 5.
  
4. Outline of cells rounded. *Cosmarium*.
4. Outline of cells spiked, triangular, with projecting points. *Staurastrum*.
  
5. Cells more than three times as long as wide. Go to 6.
5. Cells circular or oval. Go to 11.
  
6. Axis of cells strongly curved, crescent shaped. *Selenastrum*.
6. Axis of cells straight or nearly so. Go to 7.
  
7. Cells in irregular clumps with thin threads running through the clusters. *Thalassiosira*.
7. Cells not in clumps and without thin threads. Go to 8.

8. Cells widest in middle, tapering from middle toward ends. *Navicula*.
8. Cells long, slender, tapering only near ends. Go to 9.
9. Cells green, clear area at mid-length. *Closterium*.
9. Cells yellow-green, shiny. *Synedra*.
10. Outline of cells circular or nearly so. Go to 11.
10. Outline of cells oval. Go to 13.
11. Cells motile. *Gymnodinium*.
11. Cells not motile. Go to 12.
12. All cells circular. *Chlorella*.
12. Some cells circular, others square with rounded corners. *Cyclotella*.
13. Ovoid cells that taper to one end, club shaped. *Prorocentrum*.
13. Ovoid cells that do not taper. Go to 14.
14. Anterior with invagination where flagella attach. *Amphidinium*.
14. Anterior without invagination, cells almost circular. *Gymnodinium*.
15. Cells connected in a spherical colony. *Volvox*.
15. Cells connected in a filament. Go to 16.
16. Filaments short, usually 4 to 6 cells; terminal cells with curved spines. *Scenedesmus*.
16. Filaments long. *Ulothrix*.
17. Plant-like body with stems. *Acrochaetium*.
17. Not plant-like; cottony or spiky clumps of filaments. Go to 18.
18. Filaments 1 cell in thickness. *Agardhiella*.
18. Filaments of more than 1 cell layer, segmented appearance. *Polysiphonia*.