## Key to some common green algae and Euglenoids

		_
1.	Plants unicellular or colonial	
1'.	Plants filamentous	
2(1).	Motile by flagella	
2'.	Nonmotile	8
3(2).	Unicellular	4
3'.	Colonial	5
4(3).	Cells long and tapering when swimming, round when resting;	
	one flagellum and a red eyespot	Euglena
4'.	Cells oval; 2 flagella; chloroplast cup shaped	Chlamydomonas
5(3').	Colony a flat plate, 4-8-16 cells	Gonium
5'.	Colony spherical	
6(5').	Cells close together, usually 16	Pandorina
6'.	Cells remote from each other	
7(6').	32 (usually) to 128 cells	Eudorina
7'.	Hundreds of cells	
8(2').	Unicellular	
8'.	Colonial	
9(8).	Cells in two symmetrical halves connected by a narrow isthmus	
9'.	Cells spherical to oval, sometimes in irregular masses;	·
	on wood or moist soil	Protococcus
10(8').	Colonies with four cells (sometimes eight) in a row; spines often on	
( )	end cells	Scenedesmus
10'.	Colonies with more than four cells	
11(10').	Colonies mucilaginous; cells in groups of four within mucilage	
11'.	Colonies not mucilaginous	
12(11').	Cells forming a net often visible to the unaided eye	
12'.	Cells forming a flat plate	
13(12').	Plate irregular; some cells with long, sheathed bristles	Coleochaete
13'.	Plate regular; marginal cells with lobes. horns, or short spines	Pediastrum
14(1').	Filaments unbranched	15
14'.	Filaments branched	
15(14).	All cells short	
15'.	Some cells long	
16(15).	Cells with thick walls; chloroplast diffuse	Micospora
16'.	Cells with thin walls; chloroplast in a ring around interior of cell	Ulothrix
17(15').	Chloroplasts star-shaped, usually two per cell	Zvonema
17(15).	Chloroplasts not star shaped	18
18(17').	Chloroplasts spiral	
18'.	Chloroplasts not spiral	
19(18').	Cell wall thin; chloroplast a flat plate which is broad in surface	.17
15(10).	view and appears as a thin line in sideview	Mougeotia
19'.	Cell wall thick	20
20(19').	Chloroplast more or less uniform; some cells with apical caps;	,20
20(17).	swollen oogonia	Oedogonium
20'.	Chloroplast dense and granular; cells large, with a very few	Ocaogonium
20.	short rhizoidal branches	Phizoclonium
21(14').	Branches short, with a bulb-like base tapering into a long spine	Pulhaghagta
21(14).	Branches relatively long	
22(21').	Cells with thick walls	
22(21). 22'.		
23(22').	Cells with thin walls  Plant body showing marked differentiation between a single row of large cells forming the main axis	.43
43(44).	and numerous tufts of short lateral branches with small cells	Dranarnaldia
23'.		
<i>LJ</i> .	Plant body not so differentiated	Sugeocionium

## Some terms used in key

Apical caps – Distinctive rings in the tip (apical region) of certain cells. These caps often are broader than the rest of the cell.

Colonial – Cells present in groups (rather than as single cells which are considered unicellular).

Diffuse (chloroplast) – Thin, spread out, not dense. Usually appears light in colour. Filamentous – Cells are threadlike.

Motile - Able to move, often by flagella.

Mucilaginous - Covered in a slimy (mucus-like) layer.

Rhizoidal (branches) – Branched structures that look like roots.

