

## Biology

### Classification information

Organism (common name): Brown algae

Name \_\_\_\_\_

Kingdom: Protista

Order:

Species:

Phylum: Phaeophyta

Family:

Class:

Genus:

Scientific name:

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1. **Special description:** pigments (chlorophyll a and b, and carotenoids), Algin: gelatinous coating used as ice cream thickener
2. **Habitat:** marine rocks and ocean floor
3. **Symmetry/shape:** Unicellular N/A, nondescript shape
4. **Organization:** Unicellular; colonial, forms thallus of stemlike & leaflike structures, also air bladders
5. **Integument:** unicellular, cell wall contains silica
6. **Skeleton:** Unicellular N/A
7. **Musculature:** Unicellular N/A
8. **Movement:** Sessile, floaters
9. **Behavior/activity:** Taxes, Migrates toward food, retreats from glass
10. **Nervous system:** Unicellular, N/A
11. **Senses/detection:** Unicellular, chemotaxis
12. **Nutrition:** Heterotrophic, complex carbohydrate storage
13. **Digestive:** phagocytosis, food vacuole, enzymes
14. **Circulation:** Unicellular N/A, diffusion
15. **Respiration-ventilation:** Unicellular N/A
16. **Final electron acceptor:** O<sub>2</sub>
17. **Excretory:** Unicellular egestion
18. **Reproduction:** Sexual
19. **Life cycle/embryology:** Unicellular sexual-asexual
20. **Classification:** 1) Pigments, 2) Food storage, 3) Cell wall composition