

Biology

Classification information

Name _____

Organism (common name): Yellow-green and golden brown algae

Kingdom: Protista

Order:

Species:

Phylum: Chrysophyta

Family:

Class:

Genus:

Scientific name:

1. **Special description:** pigments (chlorophyll a and b, and carotenoids), Largest group of photosynthetic organisms, The accumulation of diatoms forms diatomaceous earth (some 1400 ft thick), Diatom remains used for abrasive agents in polish, wax, cleansers, toothpaste, insulation, etc.
2. **Habitat:** ubiquitous
3. **Symmetry/shape:** Unicellular N/A, nondescript shape
4. **Organization:** Unicellular; some in simple colonies
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, oil storage
13. **Digestive:** phagocytosis, food vacuole, enzymes
14. **Circulation:** Unicellular N/A, diffusion
15. **Respiration-ventilation:** Unicellular, diffusion
16. **Final electron acceptor:** O₂
17. **Excretory:** Unicellular N/A, egestion
18. **Reproduction:** Asexual and sexual. Due to hard cell wall cells oftentimes get smaller
19. **Life cycle/embryology:** Unicellular sexually and asexually
20. **Classification:** 1) Pigments, 2) Food storage, 3) Cell wall composition