Phytoplankton

What three kingdoms do marine phytoplankton belong?

1. 

2. 

3. 

Study tables 4.1 (Sumich p.96) summarize in a short paragraph the major characteristics of each of the following Divisions (Castro p.86)

Chrysophyta...

Dinophyta....

Chlorophyta...

Diatoms:

Taxonomically, belong in the division ____________

10 True statements about diatoms (Sumich p. 99-102) or (p.86-87 Castro)
Sketch (not trace) 4 of the diatoms on page 103 Sumich or page 303 Castro... shading counts!

Microscope work. Observe the four types of diatom slides. Sketch the diatoms you see under the microscope. If you see more than one type, draw a representative.
Prepare a wet mount slide of D.E. diatomaceous earth, sketch what you see

Diatomaceous earth

Dinoflagellates: belong to the division ___________

Ten true statements about dinoflagellates (p.102-106) or (p.87-89 Castro)

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Sketch four of the dinoflagellates from (Sumich p. 104-105) or (Castro p. 88)

Name ___________________________  Name ___________________________
More microscope work. Observe the four types of dinoflagellate slides. Sketch the dinoflagellates you see under the microscope. If you see more than one type, draw a representative.

Define:

Bioluminescence-

Red Tide-

Bloom-

Flagella-
Concept map for DIATOMS

- Radially symmetrical or planar
- Centric
- Frustula walls of silica
- Used for diatomaceous earth abrasives or filters
- Fossil form carry out photosynthesis with chlorophyll a
- Diatoms reproduce values form inside then split & grow
- Structures that help them float near surface gather light for photosynthesis Bacillariophyte and are Base of marine food chain

Concept map for DINOFLAGELLATES
Internet Research

Site URLs...sketches...little known facts...links to other sites...or print out info.

About Diatoms:

About Dinoflagellates: