Chapter 22

Protists are mostly unicellular, microscopic organisms.

What issues do you see with this statement?

Characteristics

Photosynthetic - USE light to make energy Ingest food
Absorb food

Found in water, damp soil, sand, and leaf liter

junk drawer

Protozoa-heterotrophic protists

South

Algae- photosynthetic protist

South

Distinguishing Features	Phylum	Mode of Nutrition
Move using pseudopodia	Rhizopoda (amoek	oas)Heterotrophic
-	Foraminifera (forams)	
Have double shells made of silica	Bacillariophyta (diatoms)	Photosynthetic
Photosynthetic protists; can be multicellular	Chlorophyta (green algae)	Photosynthetic
	Rhodophyta (red algae)	
	Phaeophyta (brown algae)	
	angus	

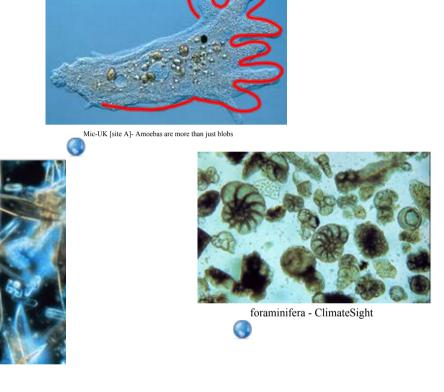
Move using flagella	Dinoflagellata (dinoflagellates)	Photosynthetic
	Zoomastigina (unicellular flagellates)	Heterotrophic
	Euglenophyta (euglenoids)	Most are heterotrophic; some are photosynthetic
Move using cilia	Ciliophora (ciliates)	Heterotrophic
Funguslike protists	Acrasiomycota (cellular slime molds)	Heterotrophic
	Myxomycota (plas- modial slime molds)	
	Oomycota (oomycetes)	
	Chytridiomycota (chytrids)	
Form resistant spores	Sporozoa (sporozoans)	Heterotrophic

Common Name	Approximate Number of Species
Amoebas	300
Brown algae	1,500
Cellular slime molds	70
Chytrids	575
Ciliates	8,000
Diatoms	more than 11,500
Dinoflagellates	2,100
Euglenoids	1,000
Foraminiferans (Forams)	300
Green algae	more than 7,000
Plasmodial slime molds	500
Red algae	4,000
Sporozoans	3,900
Unicellular flagellates	3,000
Water molds	580

Unicellular heterotrophs with a unique form of locomotion

Amoebas Foraminifera Diatoms

Biogenic silica - Wikipedia, the free encyclopedia



Amoebas

Move by pseudopodia

Long flexible cytoplasmic extension

Puedo= false

Podium= Foot

It has no cell wall or flegeld making it very flexible

Stretches out, anchors, cytoples flows in

The pseudopodia can help "eat" food



Live in fresh and salt water especially soil

Asexual reproduction
Reproduce by fission - diving into two cells

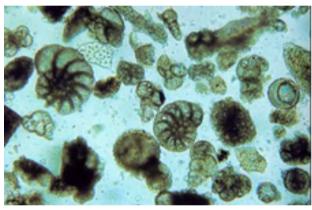
Some can be parasites like causing amebic dysentery-Transmitted by contaminated food and water

Foraminifera

Live in sand or attach themselves to <u>rocks</u>

Have porous shells and a <u>spir ole</u> shape

Look like a tiny <u>5 noul</u>



foraminifera - ClimateSight

Some catch prey others use algae that live under their shells known as <u>tests</u>.

The shells of dead forams accumulate on sea floor and

make imestone



The Carbon Cycle - Feature Articles

Diatoms

Photosynthetic, unicellular with double shells
Shells are like small boxes with lids
Producers in the food Chain
Have either odio or bilateral symmetry



Empty shells are mined and used as an abrasive or adding sparkle to print

Also sold as a natural pest control because they cut into the body of the organism





They secrete chemicals that help in their movement and gliding

Asexual reproduction- the halves specificand then each regenerates

Diatoms tend to get **Small** with each generation

When a diatom gets to small for its shell it slips out, grows to full size, and makes a new

Multicellular algae

Green algae Brown algae Red algae







Green algae

Most are freshwater

Contain same pigments as chloroplasts.

Sexual and asexual reproduction



Red algae

Muticelluar found in Occom

red pigments absorbs light that penetrates into deep waters

Some are used to make agar ()



Brown algae

Kelp

Multicellular, marile environments

Grow on coasts

Among the largest organism on

