PROTISTS EUGLENA, AMOEBA, PARAMECIUM, VOLVOX









What is a Protist?

- An organism from the Kingdom Protista
- Very diverse group of single-celled organisms.
- Eukaryotic (they all have a nucleus)
- Less complex than plants or animals



Common Protists

Draw Table below on Page 15

Protist Name	Sketch	Movement	Food source (Energy)	Unique Structure
Euglena				
Amoeba				
Paramecium				
Volvex				

EUGLENA

- Single-celled Protists that live in fresh water.
- Captures food by eating other organisms
- Some contain chlorophyll





More Info on Euglenas



- Eyespot helps them sense light.
- Waste- <u>Contractile</u> <u>Vacuole</u> holds excess water and removes it from the cell.
- Movement- <u>Flagella</u>
- <u>video</u>

More Info on Euglenas

- Reproduction-Asexual (binary fission)
- Specialized Needsshape does changes easily so it can move around
- <u>http://bio.rutgers.edu/euglen</u>
 <u>a/</u>



AMOEBA



- Found in freshwater and salt water around a lot of dead and decaying material.
- Are parasites, they get energy by invading other organisims

STRUCTURE OF AN AMOEBA



More Info on Amoebas

- Waste- Contractile
 Vacuole holds
 excessive waste
- Movement-<u>pseudopodia</u> (false feet)
- <u>amoeba video</u>



More Info on Amoebas



- Reproduction-Asexual (binary fission)
- Specialized Needsn/a

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PARAMECIUM



- Found in freshwater. This is a single celled organism but is more complex that other organisms.
- Cilia sweep food into <u>food</u> <u>passageway.</u>

VIDEO



Paramecium Continued...

- Waste- <u>Anal Pore</u> (food waste is removed) and <u>Contractile Vacuole</u> (water waste)
- Movement- <u>Cilia</u> (tiny hairs that move back and forth.)



Paramecium Continued...

- Reproduction-Sexual (two Parents)
- Special features-Two nuclei (<u>Macronucleus</u> and <u>Micronucleus</u>)



VOLVOX



- Found in ponds ditches and puddles.
- Composed of a colony of more than 50,000 tiny cells
- Often times called algae.





Two neighbouring cells connected by a protoplasmic bridge

Volvox continued...

- photosynthesis and flagella help bring in nutrients.
- eyespots to help sense light.



Volvox continued...



- Movement- Many flagella help move the colony.
- Reproductionasexual and sexual, daughters colonies created.

Volvox Videos



- <u>video 1</u>
- <u>video 2</u>
- video 3

Common Protists

Protist	Sketch	Movement	Food source (Energy)	Unique Structure
Euglena				
Amoeba				
Paramecium				
Volvex				

Protist	Structure	Locomotion (Movement)	Food source (Energy)	Specialized Cell Structure
Euglena	Unicellular	Flagellum	Feeds on other organisms; can make nutrients	Eyespot
Amoeba	Unicellular	Pseudopods	Feeds on other organisms	
Paramecium	Unicellular	Cilia	Feeds on other organisms	Oral groove and contractile vacuole
Volvex	Unicellular (lives in colonies)	Flagella	Makes nutrients	