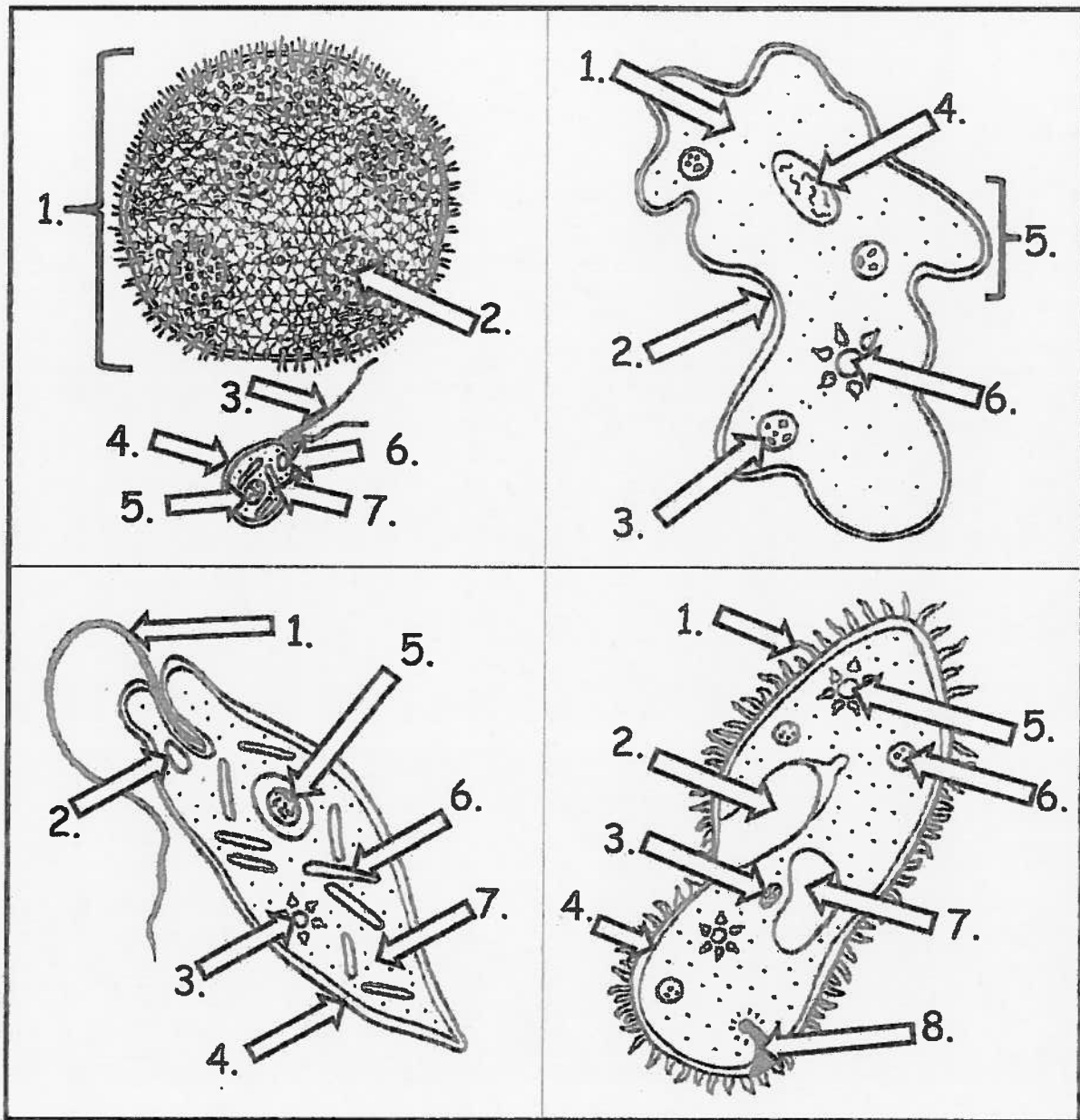


Front of Protist 4-Flap Foldable

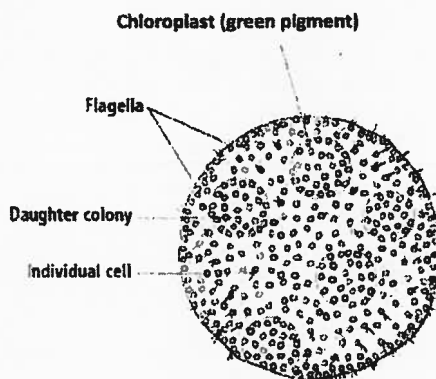
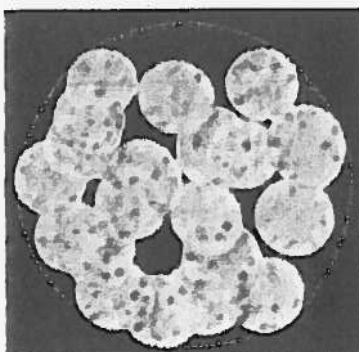


Illustrations hand drawn by Cate Colangelo

Inside of Protist 4-Flap Foldable

<p>VOLVOX</p> <p><u>Movement:</u></p> <p>Flagella of individual cells work together</p> <p><u>Metabolism:</u></p> <p>Autotrophic (plant-like producer)</p> <p><u>Reproduction:</u></p> <p>Asexual & sexual</p>	<p>VOLVOX</p> <ol style="list-style-type: none"> 1. colony 2. daughter colony 3. flagella 4. cell membrane 5. nucleus 6. eyespot 7. chloroplast 	<p>AMOEBA</p> <ol style="list-style-type: none"> 1. cytoplasm 2. cell membrane 3. food vacuole 4. nucleus 5. pseudopod 6. contractile vacuole 	<p>AMOEBA</p> <p><u>Movement:</u></p> <p>Pseudopods extend to allow amoeba to ooze</p> <p><u>Metabolism:</u></p> <p>Heterotrophic (animal-like hunter)</p> <p><u>Reproduction:</u></p> <p>Asexual & sexual (rare)</p>
<p>EUGLENA</p> <p><u>Movement:</u></p> <p>Flagella pulls like a propeller</p> <p><u>Metabolism:</u></p> <p>Mixotrophic (producer and hunter)</p> <p><u>Reproduction:</u></p> <p>Asexual only</p>	<p>EUGLENA</p> <ol style="list-style-type: none"> 1. flagella 2. eyespot 3. contractile vacuole 4. cell membrane 5. nucleus 6. chloroplast 7. cytoplasm 	<p>PARAMECIUM</p> <ol style="list-style-type: none"> 1. cilia 2. oral groove 3. micronucleus 4. cell membrane 5. contractile vacuole 6. food vacuole 7. macronucleus 8. anal pore 	<p>PARAMECIUM</p> <p><u>Movement:</u></p> <p>Cilia move like rowing oars</p> <p><u>Metabolism:</u></p> <p>Heterotrophic (animal-like hunter)</p> <p><u>Reproduction:</u></p> <p>Asexual & Sexual</p>

http://www.noanews.no22.gov



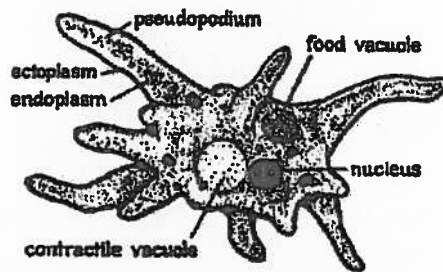
Volvox carteri

Colonies can be as large as 1000 μm

Found in still and moving freshwater near the surface

autotroph- makes its own food using chloroplasts

<http://rst.gsfc.nasa.gov>



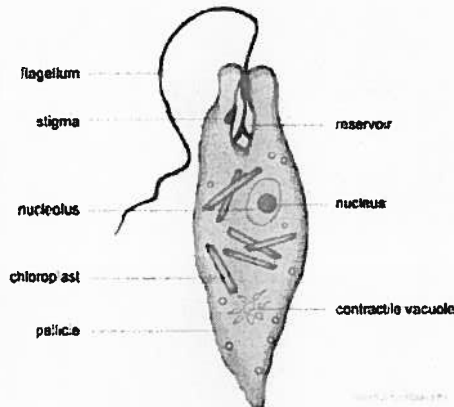
<http://www.arthursciart.org>

Amoeba Proteus

approximately 15-45 μm
found in fresh and salt water,
usually around decaying
leaves at the mud's surface
heterotroph- cannot make its
own food

<http://www.microscopy-uk.org.uk>

<http://www.microscopy-uk.org.uk>



<http://www.infovisual.info>

Euglena sanguinia

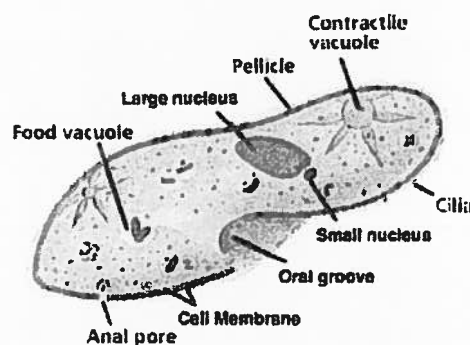
Approximately 25-100 μm

Usually found in freshwater
near the surface

mixotroph-uses chloroplasts
to make its own food or
uses flagella to capture prey

<http://www.microscopy-uk.org.uk>

<http://rst.gsfc.nasa.gov>



<http://www.emc.maricopa.edu>

Paramecium

Approximately 60-300 μm

Mostly found in freshwa-
ter, rare salt water species
exist

heterotroph- cannot make
its own food

<http://www.microscopy-uk.org.uk>

PROTIST DETERMINATION

NAME: _____

TOP: COMPLETE THE LABELLING OF THE
PROTISTS IN THE BOX

DATE: _____

PER: _____

BELOW: USING THE VENN DIAGRAM, COMPARE & CONTRAST ANY 2 PROTISTS.

Write "A" if the statement describes an amoeba, "E" if euglena, "P" if paramecium, or "V" if Volvox. You may have to write more than one letter on each blank

- ___ 1. is a heterotroph
- ___ 2. is an autotroph
- ___ 3. is a mixotroph
- ___ 4. has pseudopods to move/eat
- ___ 5. has cilia to move/eat
- ___ 6. has flagella to move or move/eat
- ___ 7. has chloroplasts
- ___ 8. reproduces sexually (as of March 2011, rare instances of amoeba sexual reproduction have been noted.)
- ___ 9. lives as an individual cell
- ___ 10. lives as a colony
- ___ 11. reproduces asexually
- ___ 12. has a nucleus

