

Unicellular Organisms Made of only one cell!!



With a partner...brainstorm answers to the following questions

- 1) How do you think unicellular organisms...eat, move, get rid of wastes, and reproduce?
- 2) How do **multicellular organisms**...eat, move, get rid of wastes, reproduce?
- 3) How many different cell types are found in the human body? Name as many as you can.
- 4) What would be some of the benefits of being a multicellular organism?
- 5) Name 2 multicellular organisms and 2 unicellular organisms.

Copy the Following Chart in Your Notes

Unicellular

- 1) Made of one cell
 - 2) Single cell performs all life functions (eat, reproduce, rid wastes, move)
 - 3) Example amoeba, bacteria

Multicellular

- 1) Made of more than one cell
- 2) Specialized cells perform different life functions (i.e. Nerve cells)
- 3) Example humans

Examples of Unicellular Species - Amoeba

Feeding

- Eats tiny plants/bacteria
- Temporary "arms" surround food and bring it into the cell vacuole

Movement

- Called "cytoplasmic streaming"
- Cytoplasm moves in one direction and rest of cell follows

Reproduction

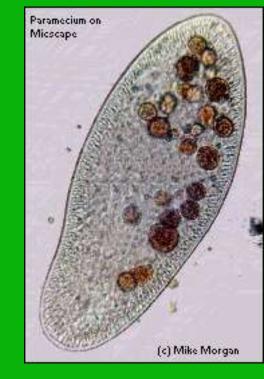
- One parent divides into two. This is called binary fission.
- Removal of Wastes
 - Wastes removed from cell by vacuoles

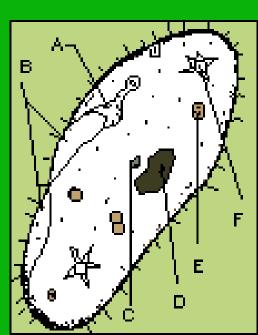


- Feeding:
 - http://www.youtube.com/watch?v=W6rnhiMxtK
 U&feature=related
- Movement:
 - http://www.youtube.com/watch?v=7pR7TNzJ_p
 A

Paramecium

- Feeding
 - Eats bacteria/smaller organisms
 - Has a structure called a "gullet"
 - Tiny hairs sweep food into this gullet
- Movement
 - Swims using tiny hairlike structures called cilia
- Reproduction
 - Divides into two by binary fission (can divide up to 2-3 times a day!!)
- Removal of Wastes
 - Vacuoles responsible for removing wastes





Paramecium Feeding

- Feeding
 - http://www.youtube.com/watch?v=I9ymaSzcsdY& feature=fvw
- Reproduction
 - http://www.youtube.com/watch?v=K0ZP8VtxUZ0
 &feature=related

Euglena

- Feeding
 - Able to make its own food (like a plant)
 - In the dark, it can eat other species (like amoeba)
- Movement
 - Uses a whip-like structure called a "flagella" to move through water
- Reproduction
 - Splits into two by using binary fission
- Remove Wastes
 - The vacuole of the cell removes the wastes







Unicellular Organisms in Us!



Unicellular Organisms in Us



YOUR QUESTIONS

- What does unicellular mean?
- How big are unicellular organisms?
- What things do unicellular organisms contain?
- Do people have unicellular organisms?
 - What do unicellular organisms eat?
 - How do unicellular organisms move?
 - Do they mate?
- Do unicellular organisms have organelles?

Resource

- Pond Water Critters Website
- http://www.microscopemicroscope.org/applications/pondcritters/pond-critters.htm