LESSON #2 - SINGLE-CELLED ORGANISMS

Student Objectives and Activities

- This lesson is designed to introduce students to the one-celled organism and review the characteristics of such organisms.

- Students will examine a one-celled organism with a microscope and record their observations. Before assigning the exercise, the students will review the sheet "**The Use of Microscopes**".

- Students review notes from the overhead projector on the topic of "**The Single-Celled Organism**".

- Using the overhead diagram, "**The Amoeba**", the students will label the diagram and complete the definitions with the appropriate words.

Suggested Teaching Strategies

- Review with students the definition of "cell".

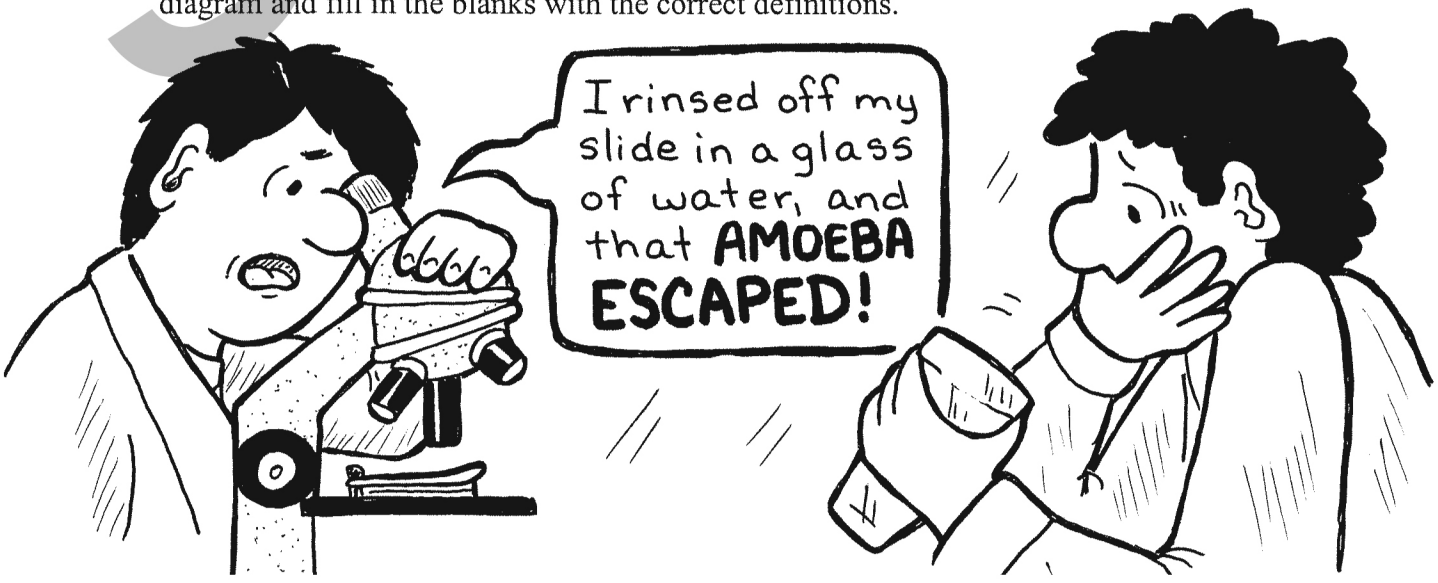
- Show the students the **"Water Bear"** picture. Ask them where they think these creatures might be found. Tell them that Water Bears are actually microscopic organisms visible only with the aid of a microscope.

- Review the main parts of a microscope and have the students read together **"The Use of the Microscope"** information sheet.

- Working individually or in small groups, have the students examine the prepared slide of a one-celled organism. Have them note three characteristics of the organism. (They may include colour, size, shape, etc.) At the conclusion of the exercise, as a class, compile a list of characteristics.

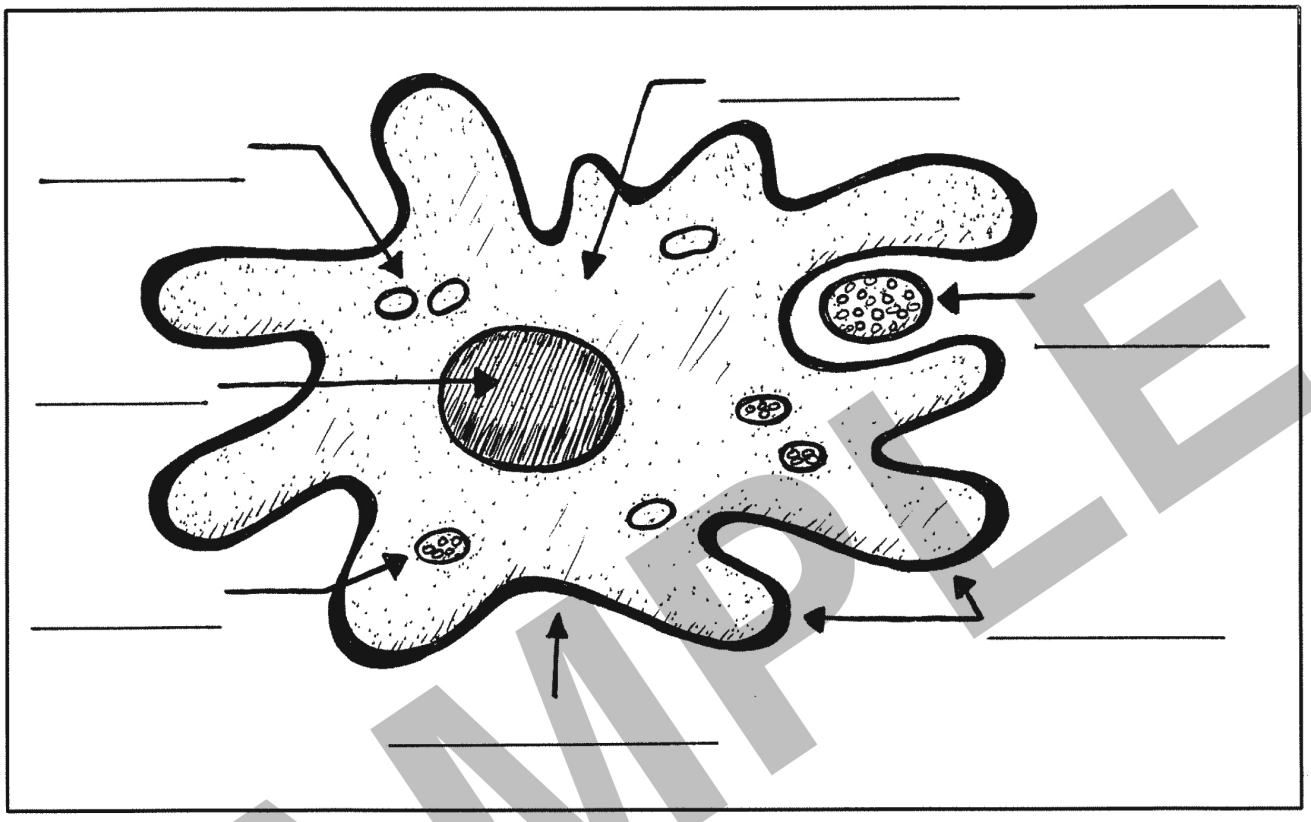
- Have the class read the information sheet, **"The Single-Celled Organism"** together from the overhead, then hand out the information sheet for the students to include with their notes.

- Display the sheet, **"The Amoeba"**, with answers on the overhead. Have the students label the diagram and fill in the blanks with the correct definitions.



ISBN: 978-1-55319-190-2

THE AMOEBA



cell membrane - the thin layer of _____ and fat that surrounds the amoeba; it allows some substances to pass into the cell, and blocks other substances.

contractile vacuole - a cavity within the amoeba that excretes excess _____ and waste.

cytoplasm - a jelly-like material that fills most of the cell; the _____ (like the nucleus) are surrounded by cytoplasm.

food vacuole - a cavity within the amoeba in which food is _____.

food being engulfed by pseudopods - the amoeba "eats" by surrounding bits of food with _____ that form around the food.

nucleus - the major organelle of the amoeba, located centrally; it controls _____ (contains chromosomes) and other important functions (including eating and growth).

pseudopods - temporary "_____" that the amoeba uses to move around and to engulf food.

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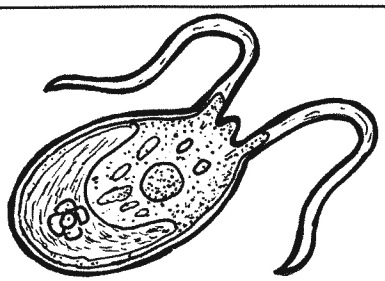
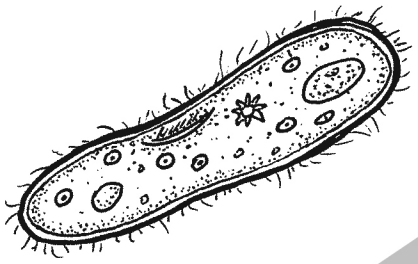
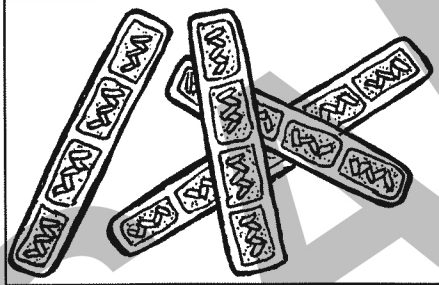
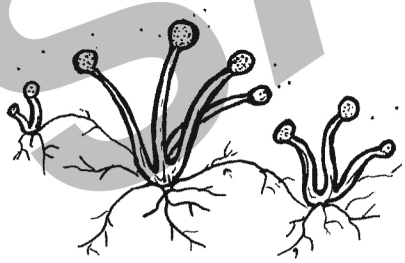
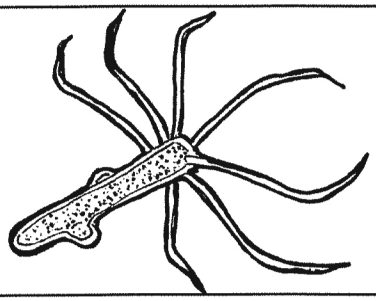
CLASSIFYING CARD GAME

PICTURES OF UNICELLULAR & MULTICELLULAR ORGANISMS	*NAMES OF ORGANISMS*	*IDENTIFY WHETHER UNICELLULAR OR MULTICELLULAR ORGANISM*
	Chlamydomonas	
	Paramecium	
	Spirogyra	
	Mucor	
	Hydra	

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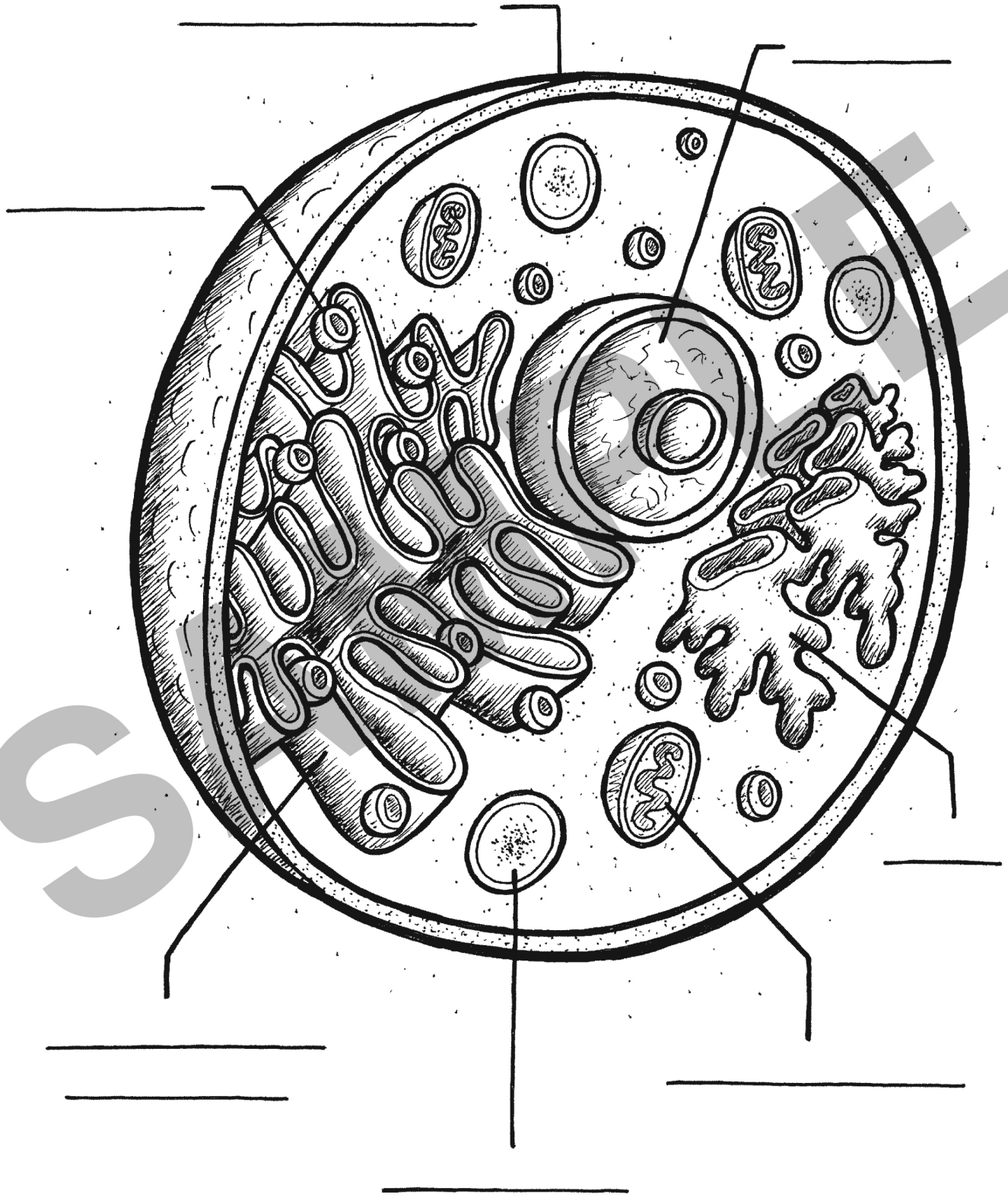
PARTS OF A CELL



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