



Name: Luke Watson

Date: 08-14-2022

Student Exploration: Paramecium Homeostasis

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: adaptation, cell mouth, cilia, concentration, contractile vacuole, food vacuole, homeostasis, hypertonic, hypotonic, macronucleus, micronucleus, oral groove, osmosis, paramecium, solute, solution, solvent

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. The images show red blood cells (RBCs) in three different **solutions**.

A. Which image shows RBCs in normal blood plasma?

B

B. Which image shows RBCs in pure water?

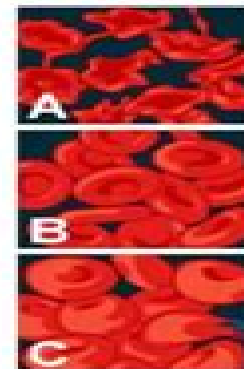
C

C. Which image shows RBCs in a very salty solution?

A

2. What do you think is happening in images A and C?

Red blood cells either expel or take in water. Red blood cells become hypertonic as seen in image A as a result. Alternately, hypotonic, as in figure C.



Gizmo Warm-up

A **paramecium** is a one-celled organism that lives in ponds and other bodies of water. One of the challenges for a paramecium is to maintain a stable size and shape.

On the *Paramecium Homeostasis* Gizmo, turn on the **Show labels** checkbox. Try to determine the function of each of the labeled structures.

1. Through which two structures do you think food enters the paramecium?

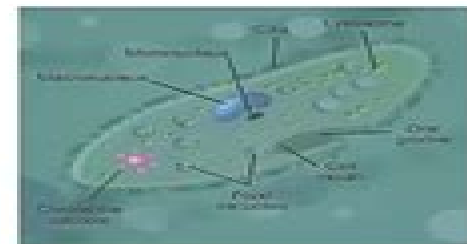
The cell mouth and oval groove.

2. Which two structures contain DNA?

Macronucleus and micronucleus.

3. Which tiny structures help the paramecium to move around?

Cilia



Virtual Lab Activity Answer Key Paramecium

**Kaleem Siddiqi, Roberto Therón, Kostas
Karpouzis, Sven Schewe, Nicola
Zannone, Marcello Pelillo, Kristof Van
Laerhoven, Paul Lukowicz**

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2022 Computer Science - Editor's Pick Kaleem Siddiqi, Roberto Therón, Kostas Karpouzis, Sven Schewe, Nicola Zannone, Marcello Pelillo, Kristof Van Laerhoven, Paul Lukowicz, 2023-04-06 **A Tetrazolium Method for Enzymatic Activity in Paramecium Caudatum** Robert Francis Ballweg, 1966

Virtual Lab Activity Answer Key Paramecium Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has are more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Virtual Lab Activity Answer Key Paramecium**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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