



Name: _____

Date: _____

Student Exploration: Paramecium Homeostasis

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**.

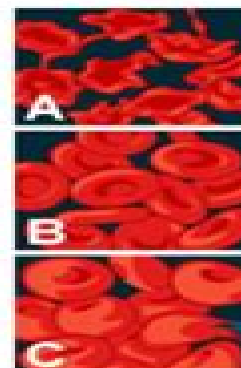
A. Which image shows RBCs in normal blood plasma? b

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? _____

H₂O is either leaving or entering the red blood cells.



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.

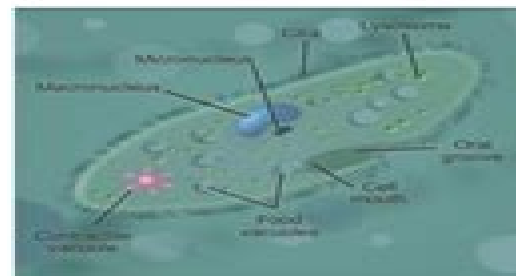
On the *Paramecium Homeostasis* Gizmo, turn on the **Show labels** checkbox. Try to determine the function of each of the labeled structures.

1. Through which two structures do you think food enters the paramecium? The oval groove and cell mouth

2. Which two structures contain DNA? the micronucleus and the macronucleus

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

4. Which structure pumps out excess water and wastes? the contractile vacuole



Virtual Lab Activity Answer Key Paramecium

M Mark



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Table of Contents Virtual Lab Activity Answer Key Paramecium

1. Understanding the eBook Virtual Lab Activity Answer Key Paramecium
 - The Rise of Digital Reading Virtual Lab Activity Answer Key Paramecium
 - Advantages of eBooks Over Traditional Books
2. Identifying Virtual Lab Activity Answer Key Paramecium
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Virtual Lab Activity Answer Key Paramecium
 - User-Friendly Interface
4. Exploring eBook Recommendations from Virtual Lab Activity Answer Key Paramecium
 - Personalized Recommendations
 - Virtual Lab Activity Answer Key Paramecium User Reviews and Ratings
 - Virtual Lab Activity Answer Key Paramecium and Bestseller Lists
5. Accessing Virtual Lab Activity Answer Key Paramecium Free and Paid eBooks
 - Virtual Lab Activity Answer Key Paramecium Public Domain eBooks
 - Virtual Lab Activity Answer Key Paramecium eBook Subscription Services
 - Virtual Lab Activity Answer Key Paramecium Budget-Friendly Options

6. Navigating Virtual Lab Activity Answer Key Paramecium eBook Formats
 - ePub, PDF, MOBI, and More
 - Virtual Lab Activity Answer Key Paramecium Compatibility with Devices
 - Virtual Lab Activity Answer Key Paramecium Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Virtual Lab Activity Answer Key Paramecium
 - Highlighting and Note-Taking Virtual Lab Activity Answer Key Paramecium
 - Interactive Elements Virtual Lab Activity Answer Key Paramecium
8. Staying Engaged with Virtual Lab Activity Answer Key Paramecium
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Virtual Lab Activity Answer Key Paramecium
9. Balancing eBooks and Physical Books Virtual Lab Activity Answer Key Paramecium
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Virtual Lab Activity Answer Key Paramecium
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Virtual Lab Activity Answer Key Paramecium
 - Setting Reading Goals Virtual Lab Activity Answer Key Paramecium
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Virtual Lab Activity Answer Key Paramecium
 - Fact-Checking eBook Content of Virtual Lab Activity Answer Key Paramecium
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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