

4. Which structure pumps out excess water and wastes?

The Vacuole
Contractile.

Activity A:
Maintaining a
water balance

Get the Gizmo ready:

- Select the **User controlled** setting.
- Check that the **Water solute concentration** is 1.00%.



Introduction: Every organism needs to maintain stable internal conditions—a process known as **homeostasis**—in order to survive. A paramecium maintains homeostasis by responding to variations in the **concentration** of salt in the water in which it lives. (The concentration of a solution is equal to the amount of **solute** that is dissolved in a given amount of **solvent**.)

Question: How do changing solute concentrations affect a paramecium?

1. **Predict:** In the *Paramecium Homeostasis* Gizmo, the solute is salt and the solvent is water.

- A. Look at the top left of the Gizmo. What is the water solute concentration?

1.00%

A solute concentration of 1.00% means that for every 1 gram of water there is 0.01 grams of solute (salt).

- B. What is the concentration of solutes inside the paramecium?

1.80%

The water solution outside the paramecium is said to be **hypotonic** because it has a lower solute concentration than the solution inside the paramecium.

- C. Based on the internal and external solute concentrations, do you think the paramecium will swell up or shrink in this solution? Explain your reasoning.

Because there are so many grams in the fluid, I think the paramecium will swell up in it.

2. **Observe:** Click **Play** (▶), and observe the size of the paramecium.

- A. What do you notice?

The Paramecium grows in size.

- B. What happens after about 16 seconds?

Explosion of the Paramecium.

3. **Observe:** Click **Reset** (↺). Set the **Water solute concentration** to 2.00%. (This is a **hypertonic** solution because it has a higher solute concentration than the solution inside the paramecium.) Click **Play**. What happens to the volume of the paramecium now?

The Paramecium shrinks in size.

Virtual Lab Activity Answer Key Paramecium

Michael Rajnik



Virtual Lab Activity Answer Key Paramecium:

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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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