

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

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