



Name:

Date:

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?

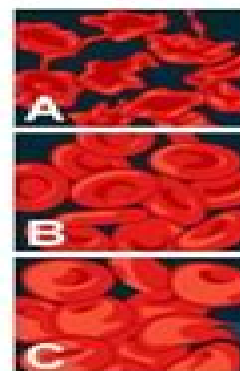
c

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

a

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

in A the RBCs are shrinking meaning that it is hypertonic where the water is going out of the cells while salty solution is going in the cell. in C the it is bursting where the cell absorbs the water into the cell.



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?

oval groove and the cell mouth.

2. Which two structures contain DNA?

micronucleus and the macronucleus

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

Cilia, which are small and hair-like that helps with moving

Paramecium Homeostasis Gizmo Answers

TD Snyder

A red circular graphic with a gradient, appearing as a semi-circle or a partial ring, located to the right of the 'TD Snyder' text.

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