



Name:

Date:

Student Exploration: Human Homeostasis

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

Vocabulary: dehydration, heat stroke, homeostasis, hypothermia, involuntary, thermoregulation, voluntary

Prior Knowledge Questions (Do these BEFORE using the Gizmo.) A thermostat is a device that regulates the temperature inside a building.

1. What does a thermostat do if it gets too cool?

The thermostat line will go down.

2. What does a thermostat do if it gets too hot?

The thermostat line goes up.

3. How do our bodies sometimes act like a thermostat?

In the hot weather we start to sweat and our bodies get hot and fever our bodies get hot, when it's cold weather our bodies freeze and we need more layers of clothing to feel warm.

Gizmo Warm-up

To survive, an organism must be able to maintain stable internal conditions in a changing environment. This process is called **homeostasis**. The *Human Homeostasis* Gizmo allows you to explore how the human body stays at a nearly constant temperature in different conditions. Notice the **Air temp.** and **Body temp.** thermometers representing the air temperature and body temperature. What is the initial air temperature?

0°C and 32°F

1. What is the initial body temperature?

37°C and 99°F



2. Next to each factor listed below, write "increase," "decrease," or "same" based on how you expect that factor to affect body temperature.

Raising air temperature:

Sweating:

Lowering air temperature:

Shivering:

Adding clothing:

Exercising:

Human Body Gizmo Answers

Paul Cournet, Negar Sanaan Bensi

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author names.

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