

**Kristen Cho**  
**Human Homeostasis Gizmo**

**Objectives** Analyze how cellular homeostasis, organ systems, and feedback systems regulate homeostasis.

**Pre-Knowledge Questions** (Click on the question mark icon to see the answer.)  
A thermostat is a device that regulates the temperature inside a building.

1. What does a thermostat do to the temperature? The thermostat turns either heat on or off to keep the temperature at a set point.
2. What does a thermostat do to the room? The thermostat maintains the temperature by turning on heating or cooling when set.
3. What do you think is common to the thermostat? A thermostat set point, but body temp varies from person to person, such as by clothing, skin, etc.

**Homeostasis**  
Organisms are organisms that maintain a stable internal environment in order to survive. The process is called **homeostasis**. The human body has many systems that help it maintain a stable internal environment. The human body has many systems that help it maintain a stable internal environment.



1. What is the body's set point? 37°C
2. What is the body's set point? 37°C
3. How do you think the body maintains its temperature? Homeostasis of the body's internal environment.

Heating or temperature:  Sensitivity:   
Cooling or temperature:  Absorption:   
Adding clothing:  Exercising:

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# Student Exploration Human Homeostasis Gizmo Answer Key

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### **Student Exploration Human Homeostasis Gizmo**

Tutorial for activity A of the human homeostasis gizmo

### **Human Homeostasis Gizmo tutorial - YouTube**

Name: \_\_\_\_ Date: \_\_\_\_ Student Exploration: Human Homeostasis 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. ...

### **homeostasis\_gizmo.doc - Name Date Student Exploration Human...**

Launch Gizmo. Human Homeostasis. Adjust the levels of clothing, perspiration, and exercise to maintain a stable internal temperature as the external temperature changes. Water and blood sugar levels need to be replenished regularly, and fatigue occurs with heavy exercise. Severe hypothermia, heat stroke, or dehydration can result if internal stability is not maintained. 5 Minute Preview. Use ...

### **Human Homeostasis Gizmo : Lesson Info : ExploreLearning**

Student Exploration: Human Homeostasis Vocabulary: dehydration, heat stroke, homeostasis, hypothermia, involuntary, thermoregulation, voluntary 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 ...

### **Student Exploration: Human Homeostasis**

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. Answer the questions on your student sheet.

### **Student Exploration: Human Homeostasis PRIOR KNOWLEDGE ...**

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.

### **Student Exploration: Human 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. 1. What is the initial air temperature? 32 degrees F 2.

### **Copy\_of\_Evelyn\_Rivera\_-\_Human\_Homeostasis\_Gizmo\_-\_7113320 ...**

Human Homeostasis Gizmo : ExploreLearning Adjust the levels of clothing, perspiration, and exercise to maintain a stable internal temperature as the external temperature changes. Water and blood sugar levels need to be replenished regularly, and fatigue occurs with heavy exercise.

### **Gizmo Answer Key Human Homeostasis - examenget.com**

Human Homeostasis Gizmo : ExploreLearning Adjust the levels of clothing, perspiration, and exercise to maintain a stable internal temperature as the external temperature changes. Water and blood sugar levels need to be replenished regularly, and fatigue occurs with heavy exercise.

### **Student Exploration Human Homeostasis Gizmo Answer Key**

DOWNLOAD Student Exploration: Carbon Cycle Vocabulary: atmosphere, biomass, biosphere, carbon reservoir, carbon sink, fossil fuel, geosphere, greenhouse gas, hydrosphere, lithosphere, photosynthesis Prior Knowledge Questions (Do these BEFORE using the Gizmo.) In the process of photosynthesis, plants take in carbon dioxide (CO<sub>2</sub>) from the atmosphere and water (H<sub>2</sub>O) from the soil.

### **Student Exploration: Paramecium Homeostasis (ANSWER KEY)**

Students can explore this law in the Archimedes' Principle Gizmo. In the Gizmo, students can vary the dimensions and mass of a "boat," see how this affects the buoyant forces on the boat, and determine whether the boat floats or sinks. Hopefully, this will result in some "Eureka" moments for your students!

### **ExploreLearning Gizmos: Math & Science Simulations**

IB SL Biology II: Student Exploration: Human Homeostasis. 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. What does a thermostat do if it gets too cool? \_\_\_\_ What does a thermostat do if it gets too ...

### **Student Exploration Sheet: Growing Plants**

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### **Student Exploration Basic Prism Gizmo Answers [EPUB]**

PDF Student Exploration: Paramecium Homeostasis 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.

### **Gizmo Answers To Paramecium Homeostasis**

Human Homeostasis Gizmo tutorial - YouTube Human Homeostasis Gizmo :

ExploreLearning Adjust the levels of clothing, perspiration, and exercise to maintain a stable internal temperature as the external temperature changes. Water and blood sugar levels need to be replenished regularly, and fatigue occurs with heavy exercise.

### **Gizmo Human Homeostasis Answer Key - modapktown.com**

Gizmo of the Week: Paramecium Homeostasis.. The Paramecium Homeostasis Gizmo illustrates the function of an adaptive mechanism of the paramecium. Freshwater protists face the challenge of controlling the osmotic flow of water into the cell that could cause it to burst. ParameciumHomeostasisSE - Student Exploration Paramecium...

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