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Date: 10/4/21

## Student Exploration: Human Homeostasis

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**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?

If it gets too cold a thermostat automatically turns the heat on

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

If it gets too hot a thermostat automatically turns the air conditioning on

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

To make us warmer our bodies shiver, and to make us colder our bodies sweat.

### **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/ 32 F

1. What is the initial body temperature?

37 C/ 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: increase

Sweating: decrease



# Human Homeostasis Gizmo Answers

**Thirumalaisamy P.**  
**Velavancorresponding**



## **Human Homeostasis Gizmo Answers:**

**Justice-Oriented Science Teaching and Learning** David Steele, Alison K. Mercier, 2025-02-21 This textbook provides K 12 science teachers and educators innovative uses of anchoring phenomenon based teaching approaches from a justice oriented lens Morales Doyle 2017 It discusses topics such as the use of anchoring phenomenon based pedagogies qualities of productive anchoring phenomena and includes examples of unit plans that use anchoring phenomena and social justice science issues to create storylines to foster students multiple pathways to knowing and learning in the science classrooms The book is beneficial to K 12 science teachers and science educators who are interested in facilitating students sense making of a real world phenomenon and engaging in three dimensional science instruction NGSS Lead States 2013 By providing examples of unit plans based on theoretical groundings of anchoring phenomenon based instruction and justice oriented science teaching this book provides a great resource to students professionals teachers and academics in science education

**Human Factors for the Design, Operation, and Maintenance of Mining Equipment** Tim Horberry, Robin Burgess-Limerick, Lisa J. Steiner, 2016-04-19 Machines increasingly pervade the mining industry reducing manual labor and raising production While the use of new technologies such as remote control vision enhancement technologies continuous haulage and automated equipment has grown so has the potential for new health and safety risks Written by leading experts from Australia and North A

*Why Zebras Don't Get Ulcers* Robert M. Sapolsky, 2004-09-15 Renowned primatologist Robert Sapolsky offers a completely revised and updated edition of his most popular work with over 225 000 copies in print Now in a third edition Robert M Sapolsky s acclaimed and successful *Why Zebras Don t Get Ulcers* features new chapters on how stress affects sleep and addiction as well as new insights into anxiety and personality disorder and the impact of spirituality on managing stress As Sapolsky explains most of us do not lie awake at night worrying about whether we have leprosy or malaria Instead the diseases we fear and the ones that plague us now are illnesses brought on by the slow accumulation of damage such as heart disease and cancer When we worry or experience stress our body turns on the same physiological responses that an animal s does but we do not resolve conflict in the same way through fighting or fleeing Over time this activation of a stress response makes us literally sick Combining cutting edge research with a healthy dose of good humor and practical advice *Why Zebras Don t Get Ulcers* explains how prolonged stress causes or intensifies a range of physical and mental afflictions including depression ulcers colitis heart disease and more It also provides essential guidance to controlling our stress responses This new edition promises to be the most comprehensive and engaging one yet

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**Statistics in Context** M. E. Jones, 1996      *Human Homeostasis*, 2009

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