

Student Instructions

Living Earth: Week 4 Assignment → 4/27 - 5/1

Big Ideas We'll be Discussing: Homeostasis and the Human Body

- *Each body system contributes to the homeostasis of other systems and of the entire organism. No system of the body works in isolation and the well-being of the person depends upon the well-being of all the interacting body systems. A disruption within one system generally has consequences for several additional body systems. Most of these organ systems are controlled by hormones secreted from the pituitary gland, a part of the endocrine system.*
- *Here are some examples of homeostasis in our bodies:*
 - *The regulation of the amounts of water and minerals in the body (mostly by our kidneys). This is known as osmoregulation.*
 - *The removal of metabolic waste (called excretion). This is done by the excretory organs such as the kidneys and lungs.*
 - *The regulation of body temperature. This is mainly done by the skin.*
 - *The regulation of blood glucose level. This is mainly done by the liver and the insulin and glucagon secreted by the pancreas in the body.*

Assignments:

1) Please log into the HMH app via Clever in order to do the Textbook Assignment

Unit 7: Lesson 3 – Mechanisms of Homeostasis

- Explore/Explain 2: Homeostasis and the Human Body
 - Please take notes → these should help you answer questions correctly on the Week 4 Homeostasis and the Human Body Quiz
 - Answer the ANALYZE, EXPLAIN, INFER questions ONLY
 - Skip the Language Arts Connection, Hands on Lab, and Evidence Notebook

2) Please read the article “The Effect of Exercise on Homeostasis” found online at

<https://www.livestrong.com/article/480961-the-effect-of-exercise-on-homeostasis/>

- Please take notes while reading article; these should help you answer questions correctly on the Week 4 Homeostasis and the Human Body Quiz

3) Take the Living Earth Week 4 Reading Quiz (you must copy and paste these links into the web address)

<https://forms.office.com/Pages/ResponsePage.aspx?id=bsSeXYwVI0uXor1txqc9IkzD7ovUBylUeOjUbcsSiJUQ0JBU1dBUedWSEU4RzVPWkpROVIQSzhCMC4u>

- Use your notes from the textbook assignment and article to help you

4) Conduct your own experiment “Investigating Homeostasis and Exercise”

(you must copy and paste these links into the web address)

<https://forms.office.com/Pages/ResponsePage.aspx?id=bsSeXYwVI0uXor1txqc9IkzD7ovUBylUeOjUbcsSiJUNDRSVTVNNUtXS1I5N1VYRENOTjRGWkM4MS4u>