

Grade 9, 10

Distance Learning Module 6: Week of: May 11<sup>th</sup> – May 15th

**Biology Level 2- Modified from [Unit #3 - Cell Transport cell structure and feedback mechanisms](#)**

**Targeted Goals from Stage 1: Desired Results**

**Content Knowledge:**

- Describe the levels of organization in multicellular organisms.
- Explain how feedback mechanisms help to maintain homeostasis in organisms.
- Feedback mechanisms maintain a living system's internal conditions within certain limits and mediate behaviors, allowing it to remain alive and functional even as external conditions change within some range. Feedback mechanisms can encourage (through positive feedback) or discourage (negative feedback) what is going on inside the living system.

**Vocabulary:** cell specialization, tissue, organ, organ system, homeostasis, feedback inhibition

**Skills:** Use a model to illustrate the organization of interacting systems that provide a specific function within a multicellular organism

**Expectation:** Students will be able to explain that all organisms strive to maintain a balance between the internal and external environment through positive and negative feedback loops.

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Take notes on how the cell membrane relates to homeostasis	YouTube video - Amoeba Sisters 3:45 minute video Notes page YouTube video - Homeostasis and Negative/Positive Feedback video	Complete notes page and submit a copy
Tuesday: Introduction to the levels of organization in the human body	How is the human body organized? Pre assess with a Quizizz on Levels of	Exit Slip

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
	Organization Take Notes on levels of organization and complete exit slip	
Wednesday: Identify examples of the various levels of organization and complete the data table	Worksheet Practice on Levels of Organization	Hand in completed activity 1 and 2 from Levels of Organization
Thursday:What is a feedback loop? What are some examples in the human body?	POGIL on feedback loops	Hand in POGIL
Friday:		Feedback loops and levels of organization quizz

YouTube Video - What would happen if you didn't drink water? - Good connection to water in earlier units- lead into homeostasis?

YouTube Video Homeostasis and Negative/Positive Feedback

YouTube Video - Old video of Homeostasis and cell membrane (handout in resources folder for notes and then a question: As you take notes pay attention to one place where the cell or the cell membrane is mentioned? What is something you learned or have a question about? How does this )

YouTube video - Feedback loops: How nature gets its rhythms - Anje-Margriet Neutel TedEd Connections back to ecology (unit 1) Questions for a google form or edulastic (link posted in Google classroom)

**Week criteria for success** (attach student checklists or rubrics):

Successful completion of the daily assignments, accurate additions made to student models, and completion of the weekly check-in assignment.

**Supportive resources and tutorials for the week** (plans for re-teaching): *LINKS to all below posted in Google classroom*

Homeostasis and Feedback Loops

Homeostasis and Negative/Positive Feedback Loops

Body Temperature and Blood Glucose

Cell Membrane Facilitated Diffusion

- Video chats with the teacher to answer questions.
- Amoeba Sisters instructional and assessment videos
- Pre-recorded instructional videos from the teacher