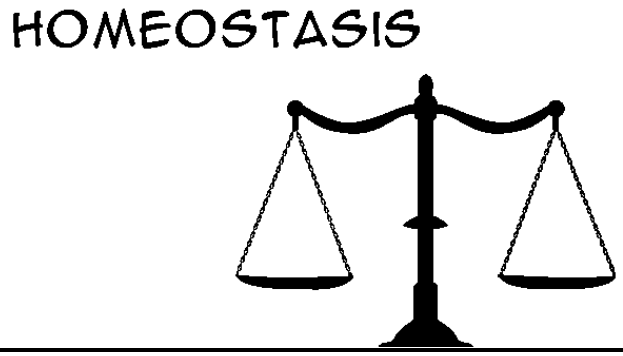
Amoeba Sisters | Video Recap

NAME: _____

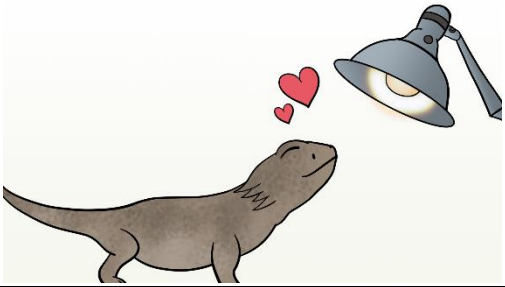
Amoeba Sisters Video *Select* Recap: *Homeostasis and Positive/Negative Feedback*

1. If you had to explain **homeostasis** to a friend who was absent for this topic, how would you explain it?

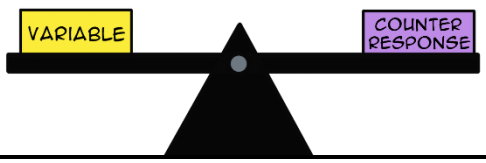


2. **Application**: The need for **homeostasis** applies to even one of the smallest living units, cells. The cell membrane controls what goes in and out of the cell. How could the cell membrane then be important for homeostasis?

3. Homeostasis can require the control of many different variables in organisms. **Homeostasis** regarding internal body temperature is very important for many organisms. How is this different among **ectotherms** and **endotherms**?



4. Why is **negative feedback** often associated with maintaining **homeostasis**?



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5. Explain how the comic below could be used to describe the difference between **positive** and **negative feedback**.

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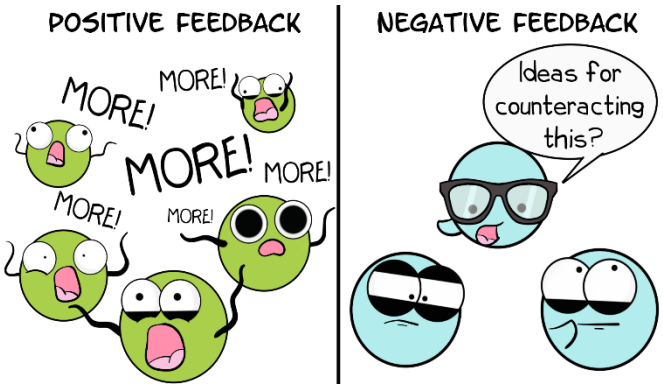

6. Your turn to illustrate! Use this space here to illustrate a **negative feedback mechanism** example. You can use one of the two examples presented in the video of negative feedback, but your images and captions should be your own.

7. **Application**: Have you ever had a cut before and wondered why it stops bleeding? It is actually a very complex process that includes platelets, which make up a component of your blood. Platelets are involved in helping the blood clot. As platelets begin to assist in clotting, more and more platelets are activated by complex signaling. This continues until a clot can be formed. Is this signaling scenario best describing positive or negative feedback? Why?

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