

Vocabulary

- Homeostasis
- Equilibrium
- Negative Feedback
- Positive Feedback
- Receptor (Sensor)
- Integrator
- Effector

Homeostasis Quick Write

How much do you remember about homeostasis? Take three minutes to write examples of homeostasis. Try to include a drawing of a homeostatic mechanism. Don't worry if you are not sure about some information being correct.

Homeostasis and Feedback Mechanisms

1. Describe what happens in a house when the temperature inside drops below the set point.

2. Draw a balance diagram for the heater like the one shown for the air conditioner. Use vocabulary words to label your diagram.

3. Explain whether the heater balance diagram is an example of negative feedback or positive feedback.

4. List the components of the heater balance diagram as sensor, integrator, and effector. Explain what each does.

Components of Homeostatic Mechanisms

1. In the response to decreased body temperature example, identify the receptors, integrators, and effectors. Is this a positive or negative feedback mechanism? Explain.

2. In the plant's stoma response example, identify the receptors, integrators, and effectors. Is this a positive or negative feedback mechanism? Explain.