

## CHAPTER 40: Homeostasis

1. Why must (multicellular) animals regulate their internal environment?

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2. What is the goal of homeostasis and how is it maintained?

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3. Define negative feedback. Give an example.

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4. Define positive feedback. Give an example in living systems.

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5. Define feedforward information. How is this utilized?

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6. Place the following terms in order from smallest to largest group: organism, organ, cell organ system, tissue, organelle

7. What is  $Q_{10}$ ?

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8. Compare the energy usage and maintenance of endotherms and ectotherms.

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9. What is BMR and how does it relate to body size of an animal?

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10. What mechanisms do endotherms use to maintain a relative constant internal temperature?

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11. Describe how the hypothalamus works as the vertebrate thermostat.

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12. What is osmolarity?

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13. What is the difference between conformers and regulators?

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