

LIFE PROCESS

- When an individual goes without eating for a day, his or her blood sugar level remains about the same throughout the day. This relatively constant condition is maintained by
 - homeostatic control
 - egestion
 - reproduction
 - growth of cells
- Maintenance of the pH of human blood within a certain range is an example of
 - digestion
 - synthesis
 - respiration
 - homeostasis
- During a race, the body temperature of a runner increases. The runner responds by perspiring, which lowers body temperature. This process is an example of
 - maintenance of homeostasis
 - an antigen-antibody reaction
 - an acquired characteristic
 - environmental factors affecting phenotype
- In a changing external environment, an organism must be able to maintain relatively constant internal conditions. This maintenance of a stable internal environment is known as
 - transport
 - metabolism
 - homeostasis
 - nutrition
- The life function responsible for the coordination and control of all life activities in an organism is known as
 - regulation
 - reproduction
 - excretion
 - nutrition
- Which term includes all the activities required to keep an organism alive?
 - growth
 - excretion
 - metabolism
 - nutrition
- As a direct result of which life process does a plant make a variety of chemical substances such as poisons, drugs, and flavorings
 - digestion
 - excretion
 - respiration
 - synthesis
- Which process is represented by the arrow in the diagram below?

Energy Stored in Food	→	Energy Available for Use by Living Organisms
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 - growth
 - respiration
 - regulation
 - excretion
- Which process is a form of autotrophic nutrition?
 - transport
 - regulation
 - fermentation
 - photosynthesis
- The removal of carbon dioxide and nitrogenous wastes from an organism illustrates the life function known as
 - regulation
 - nutrition
 - respiration
 - excretion

Name: _____
Period: _____

Living Environment
Homework #

Hypothesis Writing

Write a good hypothesis by using the "IF and THEN statement. Identify the INDEPENDENT variable and the DEPENDENT variable of your hypothesis.

Problem 1: How can social media affect the number of sleeping hours in teenagers?

Hypothesis: _____

Independent Variable: _____

Dependent Variable: _____

Problem 2: Can energy drinks affect heart rate?

Hypothesis: _____

Independent variable: _____

Dependent variable: _____

Problem 3: How do hand sanitizers affect the growth of bacteria?

Hypothesis: _____

Independent variable: _____

Dependent variable: _____

Problem 4: How does the amount of carbon dioxide affect the growth of corn seeds?

Hypothesis: _____

Independent variable: _____

Dependent variable: _____

Problem 5: Does drinking coffee increase urination (peeing)?

Hypothesis: _____

Independent variable: _____

Dependent variable: _____