

ENERGY TRANSFER

in Trophic Levels

► Complete the given sentence with appropriate words.

The amount of available energy at each trophic level of the food chain _____ as we move up an energy pyramid. As little as ___ of the energy at each level is transferred to the next level, and the rest is ___ as heat or during metabolism.

► Find the amount of energy available at each trophic level of the given food chain, assuming that only 10% of the energy is available from the previous trophic level for use.

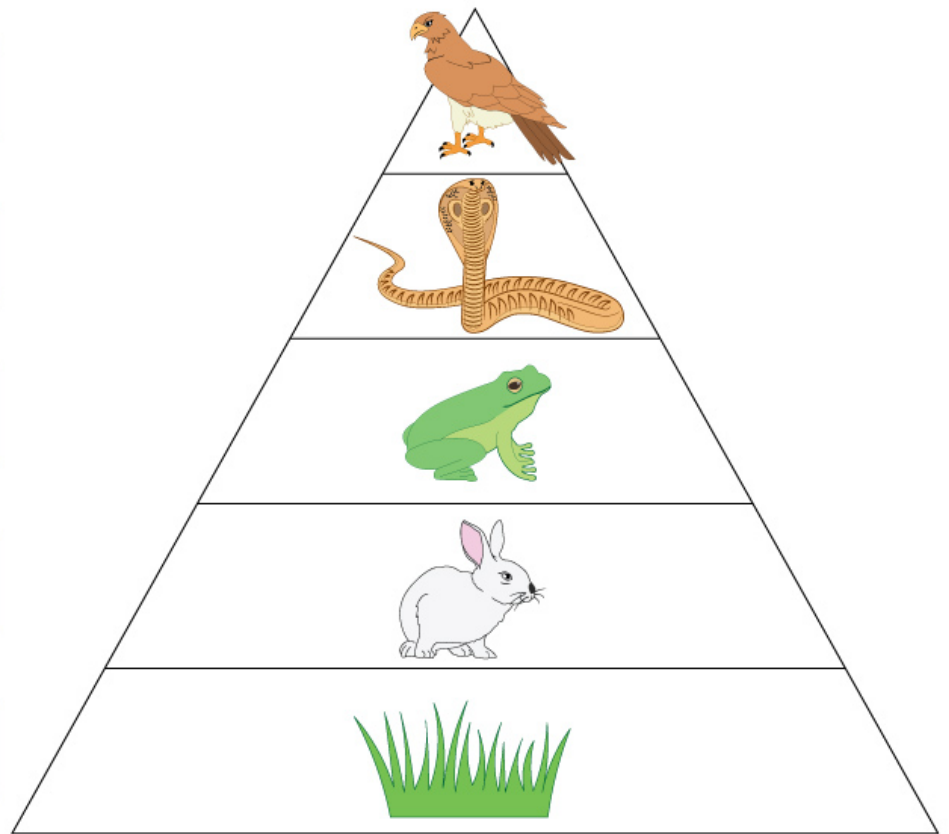
Calories available to hawk

Calories available to snake

Calories available to frog

Calories available to rabbit

Calories available to grass
10.5 KJ



► Answer the following questions about the trophic level.

Q1. Which trophic level contains the most energy?

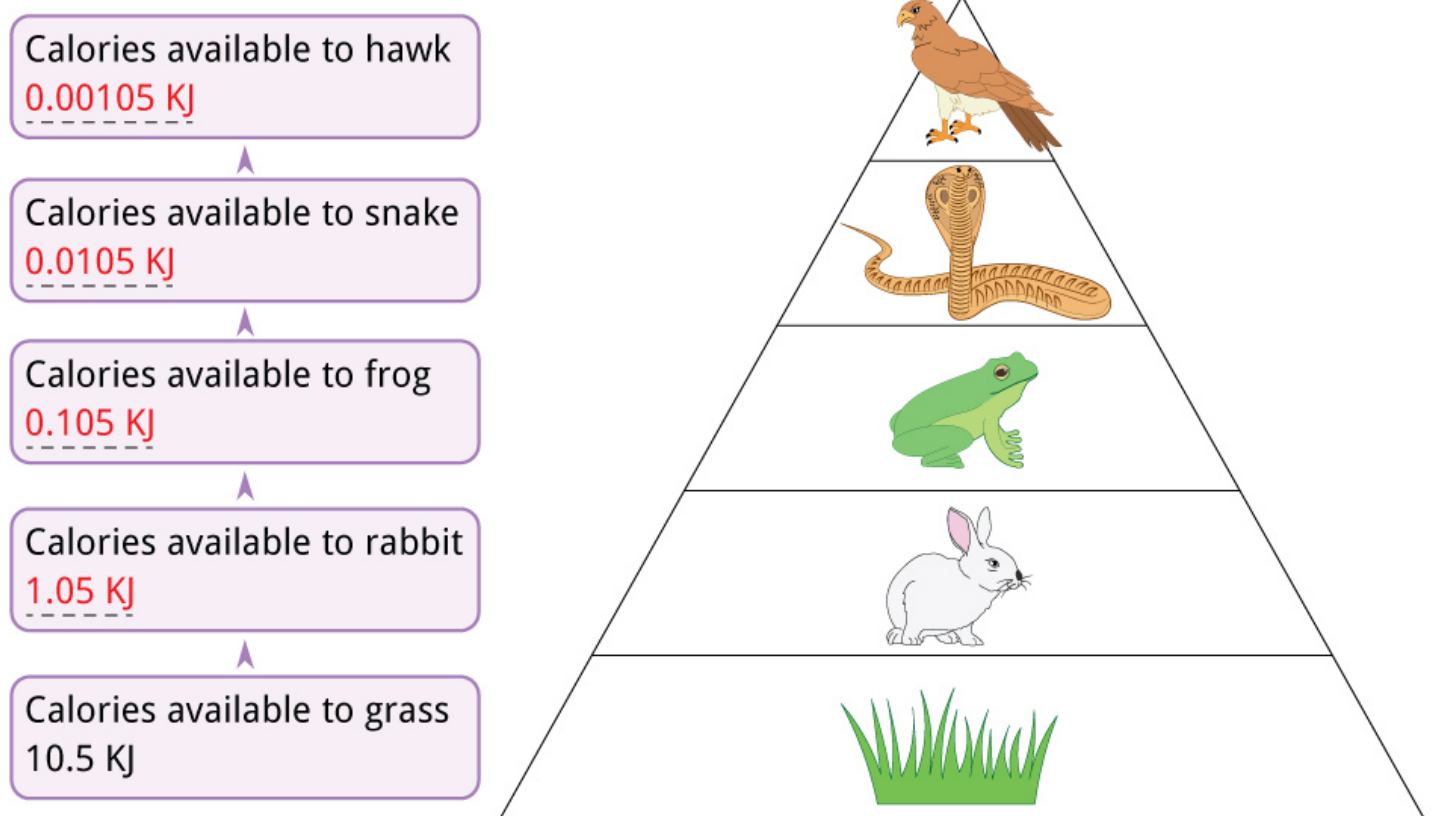
Q2. Which trophic level contains the least energy?

Name: _____ Date: _____

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in Trophic Levels

The amount of available energy at each trophic level of the food chain decreases as we move up an energy pyramid. As little as 10% of the energy at each level is transferred to the next level, and the rest is lost as heat or during metabolism.



Q1. Which trophic level contains the most energy?

The first trophic level has the most energy.

Q2. Which trophic level contains the least energy?

The fifth trophic level contains the least energy.

Name: _____ Date: _____