Sunlight on the Move

Trace energy through food and into animal bodies.

5.8 "Use evidence to explain that energy from the sun is present in animals' food and is used for body repair, growth, motion, and maintenance of body warmth."

NAME _____ DATE _____

1 READ AND MARK

Read it twice

YOUR JOB Underline the words that trace energy from sunlight into the rabbit and fox, and circle one example each of food energy used for growth, repair, motion, and warmth.

From Clover to Fox

1. On a cool morning, a rabbit nibbles clover in a field. Clover plants use sunlight to make sugar from water and carbon dioxide in the air. The sugar stores energy from the sun. As clover grows, some of that energy becomes part of its leaves. When the rabbit eats those leaves, energy that began as sunlight enters the rabbit's body.

2. The rabbit does not use its food energy for just one job. Its leg muscles use energy when it hops away from a hawk. Energy from food also helps its body make new cells as it grows. If a thorn scratches its skin, its body uses energy to repair the damaged tissue. All of these jobs depend on energy that first reached the clover as sunlight.

3. Later, a fox catches and eats a rabbit that fed on clover. The fox gets energy from the rabbit's body, but that energy can be traced back to sunlight captured by the clover. On a chilly night, the fox uses some food energy to keep its body warm. It also uses energy to run after prey. The sun's energy can reach animals through more than one link in a food chain.

2 ANSWER WITH EVIDENCE

Use the passage

1. When the rabbit hops away from a hawk, how is it using energy that began with the sun?

2. How does the rabbit get energy from the sun to make new cells as it grows?

3. A thorn scratches the rabbit. What evidence shows that sunlight helps its body repair the damage?

4. Trace the energy the fox uses to stay warm on a chilly night back to the sun.

3 YOUR TURN

Your own words

Choose an animal not named in the passage and a food it eats. In three sentences, trace energy from the sun into its food and explain two different ways the animal uses that energy.

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PART 1 · READ AND MARK

Underline the words that trace energy from sunlight into the rabbit and fox, and circle one example each of food energy used for growth, repair, motion, and warmth. Accept any marking that follows this job and points at the right text.

PART 2 · ANSWERS

#	QUESTION	ANSWER
1	When the rabbit hops away from a hawk, how is it using energy that began with the sun?	**The clover stores energy from sunlight. The rabbit eats the clover and uses that energy to move its leg muscles.**
2	How does the rabbit get energy from the sun to make new cells as it grows?	**Clover stores energy from sunlight in its leaves. The rabbit eats the leaves and uses the energy to make new cells.**
3	A thorn scratches the rabbit. What evidence shows that sunlight helps its body repair the damage?	**The rabbit uses food energy to repair damaged tissue, and that energy first reached the clover as sunlight.**
4	Trace the energy the fox uses to stay warm on a chilly night back to the sun.	**Sunlight provides energy to the clover. The rabbit eats the clover, and the fox eats the rabbit and uses some of that energy to stay warm.**

PART 3 · YOUR TURN (SAMPLE ANSWER)

Sunlight helps a milkweed plant make sugar that stores energy in its leaves. A caterpillar eats those leaves and gets energy that began with the sun. The caterpillar uses this energy to grow and to move as it crawls.

Accept accurate paths from sunlight through a plant to an animal, including paths with another animal in between. The Part 3 response should name two distinct uses of energy and contain three sentences.