

Survival Systems

Compare how plant and animal structures support life.

4.2 "The student will investigate and understand that plants and animals have structures that distinguish them from one another and play vital roles in their ability to survive..."

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline words that tell how a plant or animal gets energy. Circle words that tell how a plant or animal creates offspring, then write P or A in the margin beside each marked idea to show whether it is about a plant or an animal.

Bean Plant, Rabbit, and Fox

- ① On a sunny morning, a bean plant uses its broad green leaves to capture light. Inside leaf cells, chlorophyll helps the plant use light energy to make sugar from water and carbon dioxide. This process, photosynthesis, also releases oxygen into the air. The plant uses some sugar for energy and stores some for later. Animals cannot make their own food this way.
- ② A rabbit has teeth and a digestive system that help it eat and break down plants. The rabbit gets energy from the food it eats. A fox has teeth and a digestive system too, but it gets energy by eating other animals. Both animals depend on plant-made food, directly or indirectly. Sunlight starts many food chains.
- ③ Plants and animals also create offspring, but their structures and processes differ. A bean plant can grow flowers that make pollen and seeds. A seed can grow into a new bean plant when it has water, air, and suitable conditions. A rabbit has young rabbits after a male and female rabbit reproduce. Parent rabbits feed and protect their young until they can survive more independently.

2 ANSWER WITH EVIDENCE Use the passage

- 1 What does a bean plant need to make sugar during photosynthesis, and what gas does photosynthesis release?

- 2 How do a rabbit's teeth and digestive system help the rabbit get energy?

- 3 Why does a fox depend on plants even though it eats other animals?

- 4 How does creating offspring differ for the bean plant and the rabbit?

3 YOUR TURN Your own words

Choose one plant and one animal that are not named in the passage. Write four sentences that compare them: explain how each gets energy and how each creates offspring. Include at least one structure or process for each living thing.

PART 1 • READ AND MARK

Underline words that tell how a plant or animal gets energy. Circle words that tell how a plant or animal creates offspring, then write P or A in the margin beside each marked idea to show whether it is about a plant or an animal. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	What does a bean plant need to make sugar during photosynthesis, and what gas does photosynthesis release?	The bean plant uses light energy, water, and carbon dioxide to make sugar. Photosynthesis releases oxygen.
2	How do a rabbit's teeth and digestive system help the rabbit get energy?	They help the rabbit eat plants and break down the food it eats for energy.
3	Why does a fox depend on plants even though it eats other animals?	The animals the fox eats depend on plant-made food, so the fox depends on plants indirectly.
4	How does creating offspring differ for the bean plant and the rabbit?	The bean plant grows flowers that make pollen and seeds. Rabbits have young after a male and female rabbit reproduce.

PART 3 • YOUR TURN (SAMPLE ANSWER)

A sunflower uses leaves and photosynthesis to make sugar for energy. Its flowers make seeds that can grow into new sunflowers. A frog uses its tongue to catch insects for energy. Adult frogs reproduce, and female frogs lay eggs that can develop into young frogs.

Accept accurate comparisons that name a plant energy process, an animal way of obtaining food, and accurate offspring processes or structures for both. Students may use different living things than the sample.