



Vicky is reading a magazine article. Read the magazine article.

Nature and Us

Science for Kids May Issue

## What is Aquaponics?

Do you know that waste can be useful too? A way of farming—aquaponics—makes good use of fish's waste to help with the growth of plants. Let's learn more about it!

1 With sunlight and carbon dioxide, plants carry out photosynthesis and produce oxygen for the fish in fresh water. They also filter the water for the fish.

2 Plants also provide food and nutrients for the fish.

3 After eating and digesting the food, the fish produce waste. Fish waste contains ammonia.

5 Nitrates act as a fertiliser and provide nutrients for plants. They are easy to absorb and are important for plant growth.

4 Bacteria in the water turn the ammonia into nitrates.



Edward Choi  
Owner of  
Sunshine Organic Farm

Next week's topic: Plant Bugs



**Oxygen (n.)** forms a large part of the air. It is important to animals and plants.



10 mins

DATE

Choose the best answers by blackening the circles.

1. According to the magazine article, what do fish need to live? (Choose more than one answer.)

- A. clear, fresh water
- C. ammonia

- B. food
- D. oxygen



Tip  
Q1: Find the answers in Steps 1-4.

2. Which of the following is NOT true?

- A. Nitrates are good for plants.
- B. The title of the magazine article is Nature and Us.
- C. Bacteria help in the aquaponics process.
- D. *Science for Kids* is a monthly magazine.



3. In Step 5, the word '**fertiliser**' means 'something that \_\_\_\_\_'.

- A. produces oxygen
- B. feeds fish
- C. stops plant growth
- D. helps plant growth

Answer the questions in complete sentences.

4. What do plants need to carry out photosynthesis?

\_\_\_\_\_

5. What turn the ammonia into nitrates?

\_\_\_\_\_

6. Who gives the information about aquaponics?

\_\_\_\_\_

\_\_\_\_\_

Fill in each blank with ONE word from the magazine article.

Today, I read an article about aquaponics. I didn't know fish's waste can be so

7. \_\_\_\_\_ for the 8. \_\_\_\_\_ of plants. I would like to

visit an 9. \_\_\_\_\_ farm someday.