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## Products and processes

## Grammar start

Gold **is found** in rivers. Peaches **are grown** near the coast.

## 1 Read the information. Match the sentence halves.

New Zealand is the third largest **wool** producer in the world. Thousands of tons of wool are produced annually! Some of the best quality woolen clothes are made in New Zealand.



**Lamb** and **beef** are produced here, too. The animals are raised on the South Island. Lamb is exported to the United Kingdom. Beef is exported to the Far East.



New Zealand also produces **fruit**. For example, peaches and plums are grown near the coast. Most of the fruit is sold in New Zealand, but some is exported to Australia.



But agriculture isn't the only industry. Natural gas and iron are mined here. **Gold** is found in the rivers and mountains. It is sent overseas and used to make jewelry.

- |   |                                |   |                                  |
|---|--------------------------------|---|----------------------------------|
| a | Natural gas and iron are       | 1 | grown near the coast.            |
| b | Some of New Zealand's fruit is | 2 | mined in New Zealand.            |
| c | Gold is exported               | 3 | sold to the UK.                  |
| d | A lot of the world's           | 4 | wool is produced in New Zealand. |
| e | Cattle and sheep are           | 5 | and made into jewelry.           |
| f | Much of the country's lamb is  | 6 | found on South Island.           |

## 2 Read and complete the grammar box.

We use the **passive voice**:

- 1 to emphasize the action, rather than who does it:

*Farmers produce lamb in New Zealand.* → *Lamb **is produced** in New Zealand.*

- 2 when we don't know who does the action, or it isn't important:

*People find gold in the rivers.* → *Gold **is found** in the rivers.*

- 3 when it's obvious who does the action:

*Miners mine iron here.* → *Iron **is mined** here.*

The passive form of the simple present is formed with the verb **to be** + the **past participle** of the verb.

Lamb	<b>is</b>	<b>exported</b>	to the UK.
Gold	_____	<b>found</b>	in the rivers.
Peaches	<b>are</b>	<b>grown</b>	near the coast.
Gas and iron	_____	<b>mined</b>	in New Zealand.

## 3 Underline the passive sentence in each pair. Check (✓) the sentence that sounds best.

- a Silver is mined in New Zealand. ✓  
Miners mine silver in New Zealand.
- b Fruit growers export 30 varieties of apples and pears.  
Thirty varieties of apples and pears are exported.
- c More than 50 different vegetables are grown.  
People grow more than 50 different vegetables.
- d Cows produce nearly 700,000 tons of milk a year.  
Nearly 700,000 tons of milk are produced a year.
- e Oil, gas, and coal are found underground.  
People find oil, gas, and coal underground.





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Listen and number the pictures in order.

2 Complete the sentences with *is* or *are*.

- a Most bread is made from wheat.  
 b First, the wheat \_\_\_\_\_ harvested.  
 c Then it \_\_\_\_\_ ground into flour.  
 d Next, the flour \_\_\_\_\_ mixed into a dough with yeast and water.  
 e Then the dough \_\_\_\_\_ made into loaves of bread.  
 f After that, the loaves \_\_\_\_\_ baked in hot ovens.  
 g Finally, the loaves \_\_\_\_\_ taken to stores, where they \_\_\_\_\_ sold.

## 3 Complete the sentences with the correct form of the passive.

Rice is the most important food for much of the world's population. It (a) is grown (grow) in countries with a high rainfall. It (b) \_\_\_\_\_ (harvest), and then the grains of rice (c) \_\_\_\_\_ (dry) and cleaned. Some of the vitamins (d) \_\_\_\_\_ (lose) in the process, so they (e) \_\_\_\_\_ (add) to the rice again. Then the rice (f) \_\_\_\_\_ (put) into bags or boxes. Finally, the bags and boxes (g) \_\_\_\_\_ (send) to stores and sold.









**4 Use the prompts to write about how chocolate is made.**

- a** Chocolate / make / from cacao beans Chocolate is made from cacao beans.
- b** The cacao beans / harvest The cacao beans \_\_\_\_\_.
- c** They / take / to the factory \_\_\_\_\_
- d** The beans / roast \_\_\_\_\_
- e** They / grind / into paste \_\_\_\_\_
- f** Milk and sugar / add \_\_\_\_\_
- g** The chocolate / mix / in a machine \_\_\_\_\_
- It is poured into molds and cooled. Then it's ready to eat!



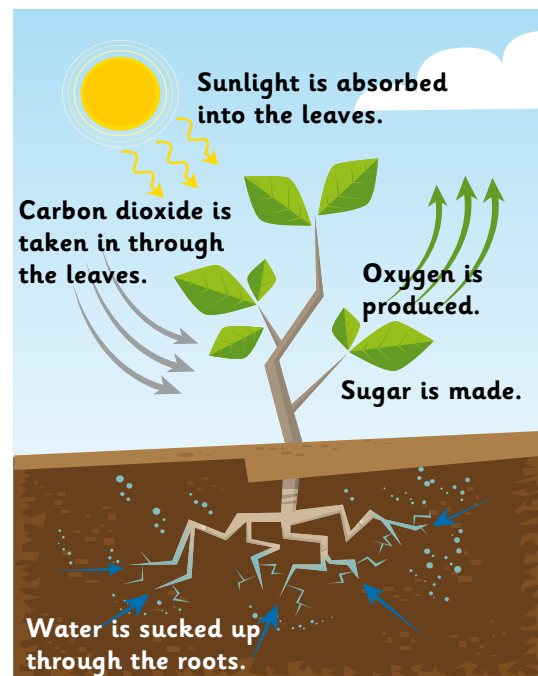
**5 Write about how potato chips are made. Use the prompts.**

- a**  First, the potatoes are harvested. (harvest)
- b**  \_\_\_\_\_ (wash)
- c**  \_\_\_\_\_ (cut into slices)
- d**  \_\_\_\_\_ (fry)
- e**  \_\_\_\_\_ (salt / add)
- f**  \_\_\_\_\_ (put / bags)

1 Read and point to the stages of the process.

**The wonder of plants**

- Q: What does photosynthesis do?  
 A: It helps plants grow. It also cleans the air.  
 Q: How is the air cleaned?  
 A: Carbon dioxide is taken in through the leaves and oxygen is produced.  
 Q: How is carbon dioxide turned into oxygen?  
 A: It is mixed with water and sunlight. This makes oxygen and sugar.  
 Q: What are sugar and oxygen used for?  
 A: Sugar is used to help the plant grow. People and animals need oxygen to breathe.



2 Read and complete the grammar box.

How	<b>is</b>	air	<b>cleaned?</b>
Where	_____	sunlight	<b>absorbed?</b>
How	<b>are</b>	sugar and oxygen	<b>produced?</b>
What	_____	sugar and oxygen	<b>used for?</b>

3 Write the words in order. Match the questions to the answers.

a absorbed / is / where / water

Where is water absorbed?

b sugar / made / is / how

c why / absorbed / sunlight / is

d sugar / is / produced / why

1 To help the plant grow.

2 To give the plant energy.

3 Through the plant's roots.

4 Carbon dioxide is mixed with water and sunlight.



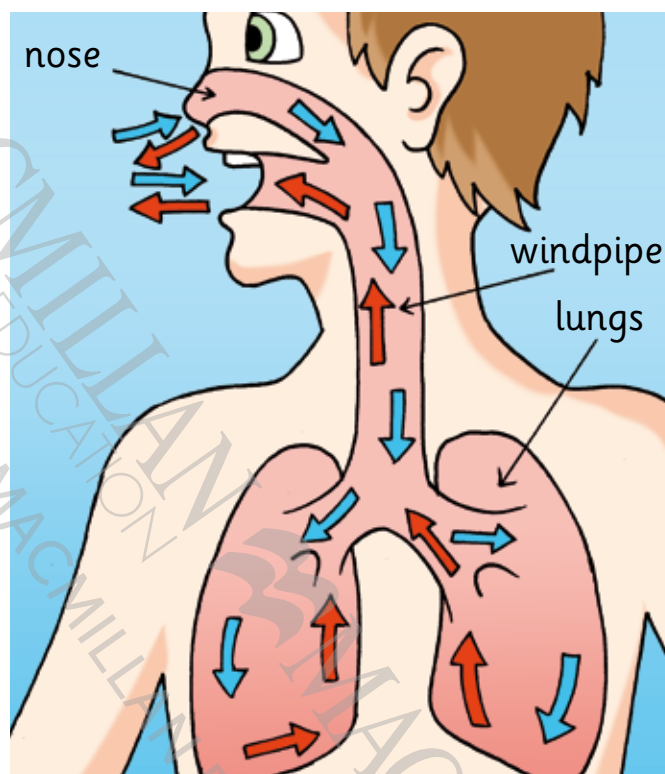
**4 Complete the questions with the verbs. Match the questions to the answers.**

How we breathe

- a What are your mouth and nose used for? (use)
- b How \_\_\_\_\_ air \_\_\_\_\_ into the lungs? (take)
- c Where \_\_\_\_\_ oxygen \_\_\_\_\_? (absorb)
- d What \_\_\_\_\_ your lungs \_\_\_\_\_ for? (use)
- e Why \_\_\_\_\_ carbon dioxide \_\_\_\_\_? (release)
- f How \_\_\_\_\_ respiration \_\_\_\_\_ to photosynthesis? (connect)

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- 1 Because it's a dangerous gas.
- 2 To absorb oxygen and release carbon dioxide.
- 3 Photosynthesis produces oxygen, which we need to breathe.
- 4 For breathing.
- 5 In the lungs.
- 6 Through the windpipe.



**5 Do a class quiz. Write four questions about photosynthesis or respiration. Ask and answer with a partner.**

Why is sunlight absorbed by plants?

It's absorbed to give them energy.