Subject : biology	Year : 8	*Lesson 1.3 carbon cycle*	
Student's Name:		**Class:**	**Date:**

1

Some of the processes involved in the carbon cycle are listed.

1 combustion
2 decomposition
3 photosynthesis
4 respiration

During the carbon cycle, which processes release carbon dioxide into the atmosphere?

A 1, 2 and 3 **B** 1, 2 and 4 **C** 1 and 4 only **D** 2 and 3 only

2

Which process releases carbon dioxide into the atmosphere?

A decomposition
B fossilisation
C photosynthesis
D transpiration

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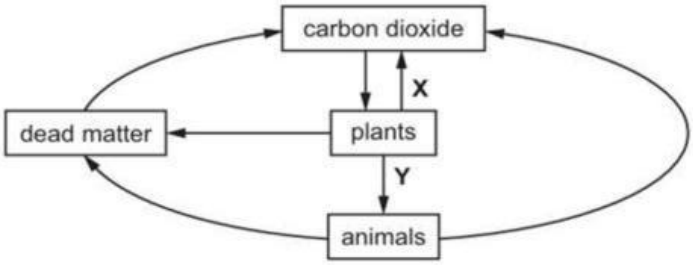
3

Combustion is another word for _____.

a) Burning
b) Fossil Fuels
c) Transportation
d) Respiration

4

The diagram shows part of the carbon cycle.



What do arrows **X** and **Y** represent?

A decay and respiration
B feeding and photosynthesis
C photosynthesis and respiration
D respiration and feeding

5

How do living organisms return carbon to the atmosphere in the carbon cycle?

a) respiration and photosynthesis
b) decomposition and respiration

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6

Which organisms remove carbon dioxide from the atmosphere?

A consumers

B decomposers

C herbivores

D producers

7

What process uses the principal source of energy input to biological systems?

A ingestion

B decomposition

C photosynthesis

D respiration

8

If the plant population decreased, the amount of carbon dioxide in the atmosphere would _____.

a) Stay the same

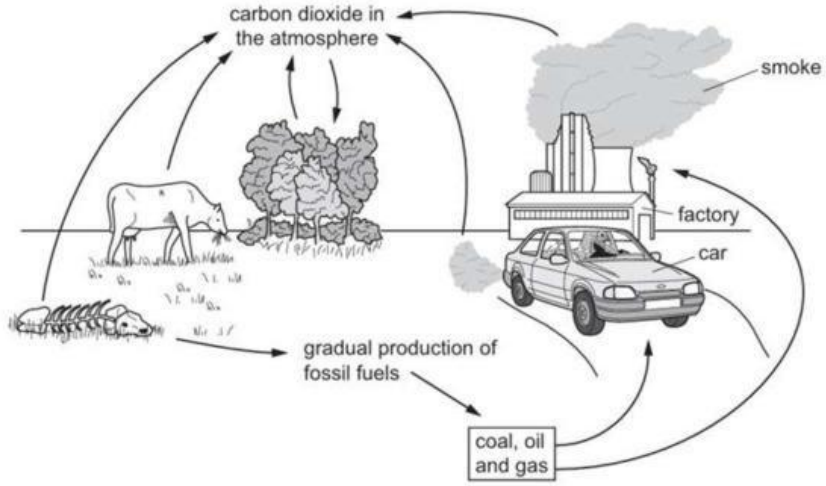
b) Decrease

c) Increase

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9

The diagram represents the carbon cycle.



Which process produces the carbon dioxide from the factory and the car?

A combustion

B condensation

C decomposition

D precipitation

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Question 2 : answer the following questions

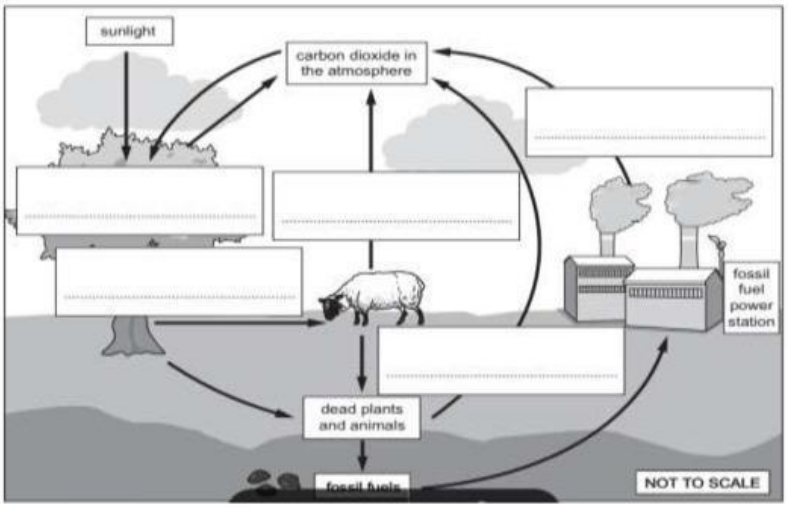
This question is about the carbon cycle and climate change.

(a) Complete the carbon cycle diagram.

Choose words from the list.

combustion **decomposition** **feeding**

photosynthesis **respiration**



Describe what happens during decomposition.

.....

..... [1]

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(a) Fig. 3.1 is a diagram of part of the carbon cycle.

Three processes that occur in the carbon cycle are labelled **Q**, **R** and **S**.

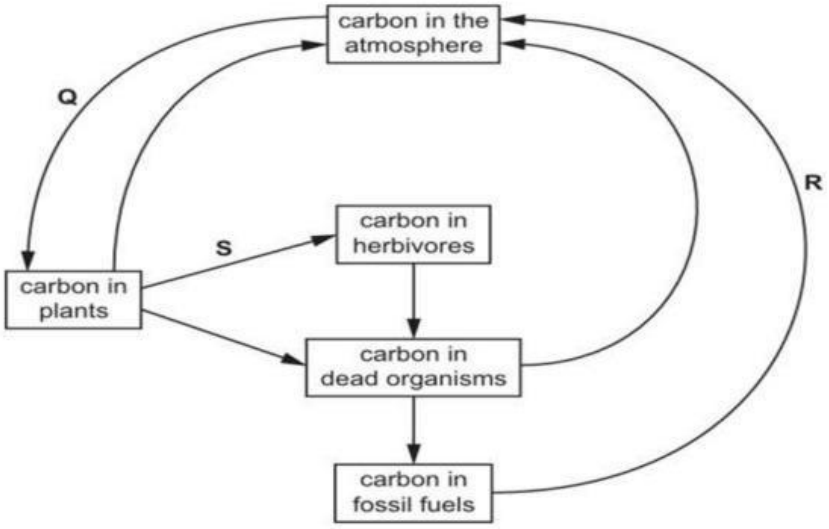


Fig. 3.1

(i) Complete the table by stating the names of processes **Q**, **R** and **S** in Fig. 3.1.

letter in Fig. 3.1	name of the process
Q	
R	
S	

[3]

(ii) Draw **one** arrow **on Fig. 3.1** to represent the transfer of carbon by respiration in herbivores. [1]

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(b)

Combustion of fossil fuels releases carbon dioxide into the atmosphere.

(i) State the name of **two other** processes that release carbon dioxide into the atmosphere.

1 .....

2 .....

[2]

(ii) State the name of **one** process that removes carbon dioxide from the atmosphere.

.....[1]

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(c)

Draw **one** straight line from each process to link the process to its description.

An example has been done for you.

process	description
combustion	breakdown of dead or waste organic matter
decomposition	burning
feeding	chemical reactions in cells that break down nutrient molecules to release energy
fossilisation	conversion of the remains of organisms into fossils
photosynthesis	ingestion of organic material
respiration	maintenance of a constant internal environment
	manufacture of carbohydrates from raw materials using energy from light

[5]

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