

GRADE 9 EXTENDED – CHEMISTRY - WORKSHEET 1

Topic: The Atmosphere and Environment Around Us.

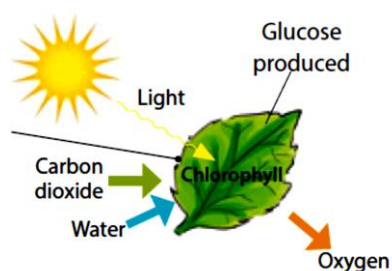
Name:

Class:

School:

Answer all questions.

Q1. The diagram below illustrates the process of photosynthesis.



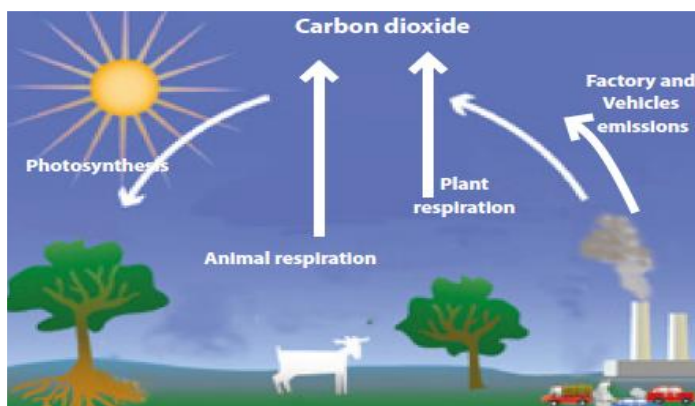
Fill in the blanks with the correct words given below:

roots, light, glucose, oxygen, chlorophyll, carbon dioxide

- (a) The green matter found in leaves is called
- (b) Plants absorb water through their
- (c) Plants take in from the atmosphere.
- (d) Photosynthesis converts energy into chemical energy in plants.
- (e) The equation for photosynthesis is:

Carbon dioxide + water → +

Q2. The carbon cycle involves 3 processes: burning, respiration and photosynthesis. Study the diagram below and answer the questions which follow.



(a) State whether the following statements are **True** or **False**.

- (i) Oxygen gas is needed by animals during respiration.
- (ii) Plants produce carbon dioxide during photosynthesis.
- (iii) Animals eating plants take in the carbon present in the plant.
- (iv) During respiration, living things absorb carbon dioxide.
- (v) This two-way movement of carbon dioxide in the atmosphere is called the carbon cycle.

(b) Complete the word equation to show the process of respiration:

glucose + → carbon dioxide +

(c) Which process in the carbon cycle is not carried out by animals?

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(d) Explain how photosynthesis and respiration help in maintaining the composition of air constant.

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(e) What will happen to the amount of carbon dioxide if we cut down many trees? Explain your answer.

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