

8B Respiration

Extension questions

Science Interactive LTD, PO BOX 50764 LONDON NW6 9AT email: sales@science-interactive.co.uk

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Answer the following questions:



Click mouse to reveal answer

- Q1. Give the technical term for the windpipe – the tube between throat and lungs?
- Q2. The windpipe splits into two of these – one to each lung?
- Q3. What are the tiny air bags with large surface area, found in the lungs, called?
- Q4. What is the red substance in blood that carries oxygen called?
- Q5. What thick walled blood vessels carry blood away from the heart to the rest of the body?
- Q6. Which blood vessels carry blood back to the heart?
- Q7. What do we call the thin blood vessels that are only one blood cell wide?
- Q8. Name the process of mechanical movement of air in and out of the lungs?
- Q9. Name the red liquid mixture that carries oxygen and food to every cell?
- Q10. Give the scientific term for drawing air into the lungs – to breathe in?
- Q11. Give the scientific term for pushing air out of the lungs – to breathe out?
- Q12. Name the chemical reaction taking place in all living cells where glucose and oxygen react to release energy?
- Q13. Name the gas in the atmosphere needed for respiration?
- Q14. Name the gaseous product of respiration?
- Q15. Name the muscular organ that pumps blood around the body?
- Q16. What is the flow of blood around the human body called?
- Q17. Name the simple sugar fuel used in respiration?

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Answers:

- A1. Trachea
- A2. Bronchus
- A3. Alveoli
- A4. Haemoglobin
- A5. Arteries
- A6. Veins
- A7. Capillaries
- A8. Breathing Ventilation
- A9. Blood
- A10. Inhale
- A11. Exhale
- A12. Respiration
- A13. Oxygen
- A14. Carbon dioxide
- A15. Heart
- A16. Circulation
- A17. Glucose

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multiple choice

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1: What food group taken in the diet is broken down into simple sugars ?

- A Proteins
 - B Lipids
 - C Minerals
 - D Carbohydrates
-

2: The release of energy by cells is called respiration. What is the waste gas called ?

- A Oxygen
 - B Nitrogen
 - C Air
 - D Carbon dioxide
-

3: Combustion and cellular respiration are similar, Which is not true of both ?

- A Both give off water vapour
 - B Both use oxygen
 - C Both give off large quantities of heat
 - D Both produce carbon dioxide gas
-

4: Cells respire glucose and oxygen. What happens to both their levels in cells ?

- A Both increase inside the cell
 - B Both decrease inside the cell
 - C No change
 - D Both become zero inside the cell
-

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- B Both decrease inside the cell
- C
- D

8B Respiration

literacy in science

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Answer all the questions below:

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1) Unscramble the following words:

renyeg

atnbhreg

aeicrob

osticumbon

2) Make three sentences using the following nine words or phrases:

circulatory system
aerobic respiration
lungs

transport
releases
exchange oxygen

oxygen and nutrients
energy
carbon dioxide

3) Match the word or phrase with the right meaning:

Aerobic respiration

The process that supplies oxygen to the body's cells

Circulation

The release of energy from glucose in cells using oxygen

Breathing

Transport of blood to all respiring cells in the body

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literacy in science

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aerobic

combustion

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complete the sentence

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Place the right word or words to complete the sentence:



Click mouse to reveal answer

glucose

respire

gas

supplies

air

large

oxygen

energy

less

- In order for cells to function they all need to respire _____ with oxygen.
- The circulatory system transports _____ , nutrients and other materials to all respiring cells.
- When you are running, your muscle cells _____ more than your skin cells.
- The test for carbon dioxide _____ is to bubble it through lime water.
- The breathing system _____ oxygen for the body.
- You use _____ energy when you're asleep, compared to when you're awake.
- The _____ you breathe in is different from the air you breathe out.
- Red blood cells have a _____ surface area to help them transport oxygen.
- An office worker requires less _____ from his diet than a manual labourer.

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complete the sentence

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Place the right word or words to complete the sentence:

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- b) The circulatory system transports oxygen, nutrients and other materials to all respiring cells.
- c) When you are running, your muscle cells respire more than your skin cells.
- d) The test for carbon dioxide gas is to bubble it through lime water.
- e) The breathing system supplies oxygen for the body.
- f) You use less energy when you're asleep, compared to when you're awake.
- g) The air you breathe in is different from the air you breathe out.
- h) Red blood cells have a large surface area to help them transport oxygen.
- i) An office worker requires less energy from his diet than a manual labourer.