

Workbook answers

Unit 1 Respiration

Topic 1.1 The human respiratory system

Exercise 1.1 The human respiratory system

1

Letter	Name
A	diaphragm
B	intercostal muscle
C	rib
D	lung
E	air sacs
F	bronchus
G	bronchiole
H	trachea (windpipe)
J	larynx (voicebox)

2

Letter	Function
C	protects the lungs
D	where oxygen gets into the body
E	where oxygen goes into the blood and carbon dioxide comes out
F	delivers air to the lungs
G	carries air from the bronchus, deep into each lung
H	carries air from the bronchioles to each air sac
J	makes sounds

- 3 Look for an answer that:
- is written entirely in the learner's own words, rather than copied from the text in the Learner's Book or elsewhere
 - mentions each part in the correct sequence
 - gives a brief description of each part.

Topic 1.2 Gas exchange

Exercise 1.2 Gas exchange

- 1 The entries should be arranged in order of either decreasing or increasing body mass. For example:

Mammal	Body mass in g	Total surface area of air sacs in m^2
human	80 000	70
sheep	68 000	60
fox	20 000	40
rabbit	1000	2
rat	300	0.8
mouse	20	0.1

- 2 The larger the body mass, the larger the total surface area of the air sacs. Learners might also add that the relationship is not proportional.
- 3 The larger an animal is, the more oxygen it will need, because it will contain more cells that are all respiring and using up oxygen. Having a larger surface area of air sacs enables more oxygen to diffuse into the body at the same time, which helps to supply the demands of the respiring cells. A similar argument could be put forward relating to the need to get rid of carbon dioxide produced by the respiring cells.

Topic 1.3 Breathing

Exercise 1.3A Measuring lung volumes

- 1 Use the measuring cylinder to measure a known volume of water – say 50 cm^3 . Pour the water into the bottle and mark its level as representing 50 cm^3 . Repeat with another known volume – say another 50 cm^3 – and mark its level as 100 cm^3 . Keep doing this until they reach the top.

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G. A. Whitmore, John Neter



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unexpected situations or come from people we never thought could offer a solution Keeping an open mind and trusting that God's ways are higher than ours is essential When we pray we seek solutions for our immediate desires and needs Yet the effects of our prayers can extend far beyond our own lives Our existence might be the answer to someone else's prayers from centuries ago highlighting the profound influence of prayer Its responses can ignite hope and inspiration not just within us but also in those around us The quest for a solution to a problem can be arduous and emotionally taxing yet this distress can lead us to discover the solution Conversely we might endeavor to find a solution to someone else's problem without realizing that we are the solution ourselves we might be the answer to their prayer This interconnectedness reminds us of the ripple effect our prayers can create Before Jesus went to the cross he saw a portion of his destiny as a filled cup in a collage of tests and trials He prayed three times that this cup would pass him as he did not want to drink from it God did not answer him However during his third request Jesus submitted to God's will saying Nevertheless not my will but your will be done When life becomes challenging and we yearn for a different answer from God His silence can be our answer God may not alter His will for our lives Have you ever wondered if the answer to a question you've been grappling with is already out there If we can formulate a question God already has the answer With God the answer always precedes the question He comprehends the end from the beginning and is the Alpha and Omega the Beginning and the End the First and the Last The Scripture says The Lamb was slain before the foundations of the world reaffirming God's omniscience and omnipotence and reminding us that He is perpetually in control Before humanity ever sinned the solution to the problem was already in place God had already provided the Answer because He is the Answer Everything we need is in Him He is the thirst and the water that quenches the thirst He is the air we breathe and the lungs that desperately need it He is the hunger and the food that satisfies He is everything we need and more He is God Be cautious not to dismiss your answered prayer simply because it doesn't align with your expectations This is a common pitfall like the religious leaders known as the Pharisees who missed out on salvation by not recognizing Jesus because He didn't fit their preconceived image of a messiah Similarly we might overlook our blessings if we are too fixated on what The Answer should look like Remember we should do what we can and leave the things beyond our reach to God Today we face many challenges and people want answers When we pray we should strive to have faith in God knowing that Jesus is The Answer

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