

> Learner's Book answers

Unit 1 Respiration

Topic 1.1 The human respiratory system

Getting started

Respiration happens in all the cells in your body.
Respiration releases energy from food.
Respiration happens in all living things.

Questions

1. nose or mouth, voicebox (larynx), windpipe (trachea), bronchi, bronchiole, air sacs
2. air sacs, bronchiole, bronchi, windpipe, voicebox, nose or mouth

Think like a scientist: Looking at lungs

1. Learners can give a basic description: they look big, soft and pink. For example.
2. The lungs feel spongy, because they are full of air sacs.
3.
 - a. smooth
 - b. It has hard ridges on it, with softer areas between.
 - c. spongy
 - d. The larynx or voicebox: it makes sounds.

Topic 1.2 Gas exchange

Getting started

1. diagram C
2. In a gas, the particles are far apart.
In a gas, the particles move freely.

Activity: Gases in and out 1 and 2



2. Two – one in the wall of the alveolus, and one in the wall of the capillary.

Think like a scientist: Why are air sacs so small?

1. The dye moving (diffusing) into the jelly is like oxygen moving (diffusing) into the blood.
2. Learners should find that the dye diffuses more quickly into the jelly when there are many small holes. Some learners may be able to relate this to surface area, and explain that many small holes have more surface in contact with the jelly than a few large holes.
3. Learners may or may not think this is a good model. Accept any sensible suggestions. For example, both the dye and oxygen move by diffusion; the dye is a liquid, whereas oxygen is gas; blood moves past the alveoli, but in this experiment the jelly does not move.

Answers For Science 20 Unit

Albert A Gayle



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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Answers For Science 20 Unit** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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