

11 Gas exchange and the lungs – Part 1

—Answers

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Work through these after trying the questions yourself.

11.1 The movement of oxygen into the blood and carbon dioxide out of it, by diffusion.

11.2 Any two of: a large surface area; a thin wall (short distance); a good blood supply; good ventilation.

11.3 The alveoli.

11.4 trachea → bronchi → bronchioles → alveoli.

11.5 Oxygen.

11.6 Any two: the alveolus has a very **thin wall** (a short distance for the gases to diffuse); a large **surface area** (millions of alveoli); and a rich **blood supply** that keeps the concentration gradient steep.