

Foundation Separate version — Higher Tier (★) questions removed.

Q1. Explain how the alveoli are adapted for efficient gas exchange.

[4 marks]

Total: 4 marks

Q1 (4 marks)

Explain how the alveoli are adapted for efficient gas exchange.

- Large total surface area (millions of alveoli) [1]
- Thin walls (one cell thick) — short diffusion distance [1]
- Dense capillary network — maintains concentration gradient [1]
- Moist lining — gases dissolve before diffusing [1]