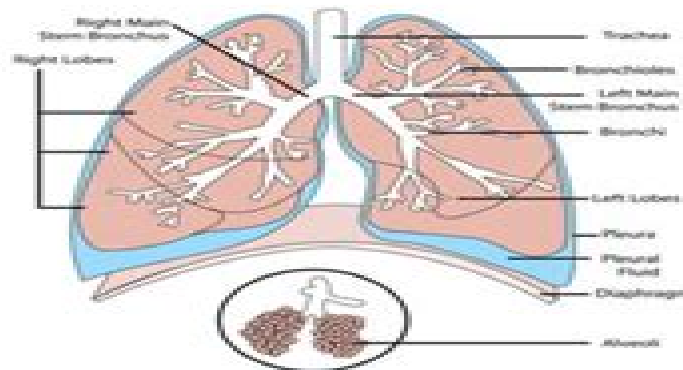


Gaseous Exchange

Lungs:

Diagram of the Human Lungs



During inhalation the external intercostal muscles contracts and the internal relaxes which pushes the ribs up and out. Apart from this, the diaphragm contracts, pulling the diaphragm down and flat. All this creates a high volume in the chest (thorax) and therefore low pressure. This causes air to be pulled into the lungs as there is higher pressure outside. During exhalation, the opposite happens meaning the ribs are pulled down and in and the diaphragm goes back to a dome shape. This creates high pressure which pulls the air out of the lungs.

Adaptations of alveoli	Advantages
Large surface area	This allows for faster diffusion as more particles can diffuse across the membrane at one time.
Good blood supply	Maintains a steep concentration gradient between alveoli and the blood capillaries.
Walls one cell thick	Creates a short diffusion pathway.
Moist	Increases the rate of oxygen diffusion as it dissolves.

Lung capacity - the volume of air the lung takes in different phases of the respiratory cycle. This can be measured with a spirometer.

1. Vital capacity - maximum lung capacity
2. Tidal volume - normal volume of air in the lungs during quiet breathing.

When the brain detects a too large or too little concentration of oxygen or carbon dioxide in the blood it changes the breathing rate to change the amount of air it takes in. e.g. if there is too much carbon dioxide, the breathing rate rises to breath out the carbon dioxide.

Diseases from smoking:

1. Emphysema - chemicals from cigarettes damage the elastic tissue in the lungs, reducing the surface area of the alveoli and therefore the speed and amount of oxygen it absorbs.
2. Lung cancer - carcinogenic chemicals in cigarette tar causes cancer.

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Table of Contents Igcse Human Biology Question Paper 22

1. Understanding the eBook Igcse Human Biology Question Paper 22
 - The Rise of Digital Reading Igcse Human Biology Question Paper 22
 - Advantages of eBooks Over Traditional Books
2. Identifying Igcse Human Biology Question Paper 22
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Igcse Human Biology Question Paper 22
 - User-Friendly Interface
4. Exploring eBook Recommendations from Igcse Human Biology Question Paper 22

- Personalized Recommendations
- Igcse Human Biology Question Paper 22 User Reviews and Ratings
- Igcse Human Biology Question Paper 22 and Bestseller Lists
- 5. Accessing Igcse Human Biology Question Paper 22 Free and Paid eBooks
 - Igcse Human Biology Question Paper 22 Public Domain eBooks
 - Igcse Human Biology Question Paper 22 eBook Subscription Services
 - Igcse Human Biology Question Paper 22 Budget-Friendly Options
- 6. Navigating Igcse Human Biology Question Paper 22 eBook Formats
 - ePub, PDF, MOBI, and More
 - Igcse Human Biology Question Paper 22 Compatibility with Devices
 - Igcse Human Biology Question Paper 22 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Igcse Human Biology Question Paper 22
 - Highlighting and Note-Taking Igcse Human Biology Question Paper 22
 - Interactive Elements Igcse Human Biology Question Paper 22
- 8. Staying Engaged with Igcse Human Biology Question Paper 22
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Igcse Human Biology Question Paper 22
- 9. Balancing eBooks and Physical Books Igcse Human Biology Question Paper 22
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Igcse Human Biology Question Paper 22
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Igcse Human Biology Question Paper 22
 - Setting Reading Goals Igcse Human Biology Question Paper 22
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Igcse Human Biology Question Paper 22

- Fact-Checking eBook Content of Igcse Human Biology Question Paper 22
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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