

# Exchange Surfaces and Breathing

## 7.1 Specialised Exchange Surfaces

- Large multicellular organisms have a higher metabolic rate than small unicellular organisms because they have more cells.
- The demand for  $O_2$  and glucose to be supplied and  $CO_2$  to be removed much higher
- In large multicellular organisms the surface area to volume ratio is too small and the diffusion differences are too large and therefore the rate of diffusion is too slow to meet these demands alone
- Therefore, they have exchange surfaces like the lungs linked up to the organs by transport systems eg. blood

### Specialised Exchange surfaces:

- Compact
- Very large surface area
- Maintains gradients — ventilation (breathing) movements and movements of blood
- Reduced barriers (only 2 layers of cells so few cell membranes)
- Good blood supply
- Short diffusion distance — alveoli and capillary wall 1 cell thick, and cells are thin (squamous epithelium)
- Surface must be permeable — cell membranes are
- Way to pick up  $O_2$  easily — respiratory pigment

## 7.2 The Mammalian Gaseous Exchange System

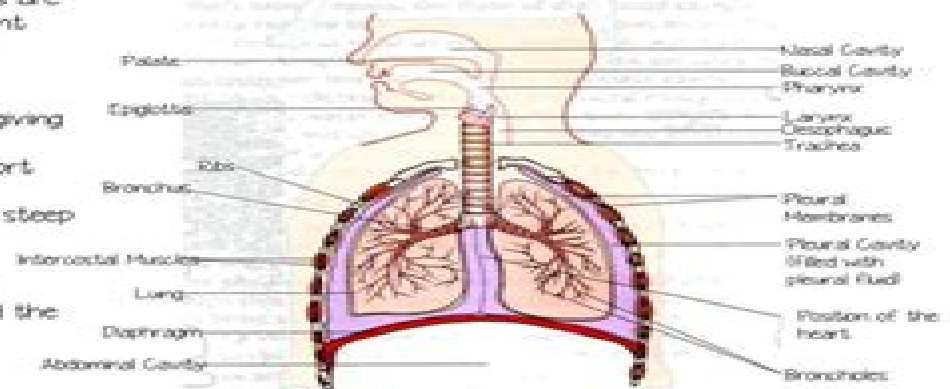
- Exchange surfaces have:
  - o Increased/large surface area — giving more area for diffusion
  - o Thin 1 cell thick wall — giving short diffusion pathway
  - o Good blood supply — maintains a steep concentration gradient
  - o Good ventilation — maintains steep gradients for  $O_2$  and  $CO_2$  between the blood in the air and the lungs

## 7.1 SPECIALISED EXCHANGE SURFACES

## 7.2 THE MAMMALIAN GASEOUS EXCHANGE SYSTEM

## 7.3 MEASURING THE PROCESS

## 7.4 VENTILATION AND GAS EXCHANGE IN OTHER ORGANISMS



Tissue	Function/Adaptation in the lungs
Cartilage	<ul style="list-style-type: none"> <li>- Holds the lumen of the trachea and bronchi open/gives support</li> <li>- Prevents collapse of the trachea/bronchi during inhalation</li> </ul>
Goblet Cells	<ul style="list-style-type: none"> <li>- Secrete mucus to trap bacteria, viruses and dust particles. Mucus contains water and mucin proteins</li> </ul>
Ciliated Epithelium	<ul style="list-style-type: none"> <li>- Move in a coordinated way to move/sweep mucus up from the lungs towards the throat</li> </ul>
Squamous Epithelium	<ul style="list-style-type: none"> <li>- Very thin lining cells found in alveoli</li> <li>- Provides short diffusion distance for gas exchange</li> </ul>
Elastic Tissue	<ul style="list-style-type: none"> <li>- Stretched during inhalation</li> <li>- Recoil during exhalation to help increase air pressure/help air be expelled from the lungs</li> </ul>

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**Revision Plus Ocr A Gcse Biology Workbook Answers** E. Attridge, 2008-02-01 **Revision Plus Ocr B Gcse Biology Workbook Answers** Jacqui Punter, 2008-02-01 **GCSE Biology OCR 21st Century Higher Answer Book** Richard Parsons, 2007-09-01 GCSE Biology OCR 21st Century Answers for Workbook Higher **GCSE Biology CGP Books**, 2016 **Aqa Gcse Biology Essentials Workbook Answers** N. Goodman, 2007-12-01 **OCR Gateway GCSE Biology** Natalie King, 2011-09 With clear and concise revision notes that cover everything you ll need to know for the exam this effective OCR GCSE Biology revision guide supports active revision for students working at all levels Plenty of quick tests and practice questions test and reinforce understanding of the key content Providing a student friendly uncluttered approach to GCSE revision this OCR Gateway additional Biology B revision guide is suitable for all levels and contains succinct revision notes and practice questions that focus on the core content needed for the exams Included in this book clear and concise coverage of all the exam assessed content simple and engaging explanations quick tests and practice questions throughout to test and reinforce understanding key words and supporting glossary Separate units differentiated by colour and labelling exam style questions at the end of each unit overview of How Science Works *GCSE Biology* Ciara McGlade, Rachel Rogers, Sean Walsh, 2016 **GCSE Biology for OCR Gateway** Jack Davies, **OCR Gateway GCSE Biology Student Book** Jo Locke, 2016-04-24 These new resources have been written to match the 2016 OCR GCSE Gateway Science 9 1 specifications Built in assessment and differentiation supports students of all abilities and makes progress tracking easy Maths skills and practical skills are developed throughout with ramped practice questions and differentiated learning outcomes *Gcse Ocr Coordinated Science Biology P* Richard Parsons, 2002-12 These Foundation level CGP

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