

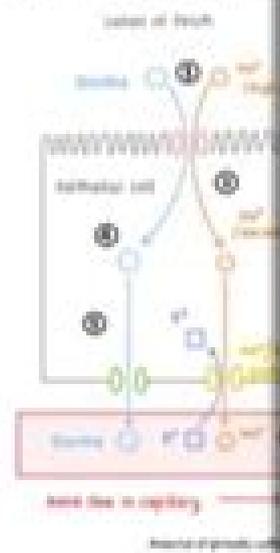
A* A-LEVEL BIOLOGY TOPIC 2 NOTES

CELLS

How do transport work for this example?

1. Surface ions are actively transported out the back, into the blood, by the gulliver.
2. Maintaining a concentration gradient of potassium ions in lumen than out.
3. Surface ions and glucose move by facilitated diffusion from the lumen, into a space.
4. Creating a concentration gradient of all glucose in epithelial cell than lumen.
5. Glucose moves out of cell into blood through a protein channel.

Diagram showing the absorption of water



Water potential

Definition: High movement of water molecules across water potential gradient. They point water always

Water potential = the likelihood ('potential') of water

- Pure water has the highest water potential (0 kJ mol⁻¹)
- Adding solutes to a solution lowers the water potential
- Measured in kilojoules mol⁻¹
- Can be denoted by the symbol ψ

How about osmosis

- Osmosis = net movement of water
- Factors affecting rate = surface area, water potential difference, thickness of exchange surface / diffusion distance

Application example

Red blood cells contain a variety of solutes dissolved

- If a red blood cell is placed in pure water, it will gain water potential than pure water
- The cell surface membrane will break and burst the cell

- However, if a red blood cell is placed in a solution of pure water, water will leave the cell by osmosis
- The cell shrinks and becomes crenated

Key takeaway point: Water will always move to a

Diagram showing red blood cells in different solutions



Antibodies

Remember the definition of an antibody

Antibody: A protein, specific to an antigen, which

Structure of antibodies - key points

- Quaternary structural protein (links to 1.1.4.2)
- Composed of 4 polypeptide chains (2 heavy and 2 light) joined together by disulphide bridges
- Each polypeptide chain has a specific amino acid sequence
- Each polypeptide chain has a specific amino acid sequence

Exam question example

Describe and explain how the structure of an antibody

- Polypeptide chains of protein = composed of amino acids
- The sequence of amino acids determines the shape of the protein
- Quaternary structure = 4 polypeptide chains held together by disulphide bridges
- Each polypeptide chain has a specific amino acid sequence
- Each polypeptide chain has a specific amino acid sequence

Diagram of an antibody



Source of protein: cells that secrete antibodies

Meiosis

The stage of the cell cycle where the cell spends most of its time in G1. Application example of this stage (this is about as much as you need to know) for your comprehensive examination from 1.1.5.2

- During meiosis, in addition to DNA replication, these processes are also occurring:
- DNA replication
 - Protein synthesis
 - Replication of organelles



But this is beyond the scope of A-level and the amount of detail you would be required to know - so don't worry about learning that!

Meiosis

Parent cell 'divides' into two in the G1 phase into two daughter cells. Results in the formation of two genetically identical daughter cells (stage of mitosis) - 2n

Chromosome transcription: Meiosis is not actually the process where the cell divides into two daughter cells. Rather,

Meiosis is the division of the cell, resulting into two genetically identical daughter cells.



Stages of mitosis

- Prophase:** Key main points
- Chromosomes condense, becoming shorter and thicker (they appear as two sister chromatids, joined by a centromere)
 - Chromosomes become visible under a microscope
 - Nuclear envelope breaks down and granules move to opposite sides, forming the spindle apparatus (needed for later stages)

- Metaphase:** Key main points
- Chromosomes align along the equator / middle of the cell
 - Spindle fibres attach to chromosomes by their centromeres



Source of protein: cells that secrete antibodies

As Level Biology Revision Notes

Daniela Niemeyer



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Table of Contents As Level Biology Revision Notes

1. Understanding the eBook As Level Biology Revision Notes
 - The Rise of Digital Reading As Level Biology Revision Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying As Level Biology Revision Notes
 - 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 As Level Biology Revision Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from As Level Biology Revision Notes
 - Personalized Recommendations
 - As Level Biology Revision Notes User Reviews and Ratings
 - As Level Biology Revision Notes and Bestseller Lists
5. Accessing As Level Biology Revision Notes Free and Paid eBooks
 - As Level Biology Revision Notes Public Domain eBooks
 - As Level Biology Revision Notes eBook Subscription Services
 - As Level Biology Revision Notes Budget-Friendly Options

6. Navigating As Level Biology Revision Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - As Level Biology Revision Notes Compatibility with Devices
 - As Level Biology Revision Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of As Level Biology Revision Notes
 - Highlighting and Note-Taking As Level Biology Revision Notes
 - Interactive Elements As Level Biology Revision Notes
8. Staying Engaged with As Level Biology Revision Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers As Level Biology Revision Notes
9. Balancing eBooks and Physical Books As Level Biology Revision Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection As Level Biology Revision Notes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine As Level Biology Revision Notes
 - Setting Reading Goals As Level Biology Revision Notes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of As Level Biology Revision Notes
 - Fact-Checking eBook Content of As Level Biology Revision Notes
 - 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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