

Unit 1: Biological molecule

3.1.1 Monomers and polymers

What is a monomer?
A small base subunit, which forms the building block of a larger molecule, called a polymer

What is a polymer?
A molecule made from a large number of similar / identical monomers joined together

Some examples of monomers and polymers

- Monosaccharide is polysaccharide (carbohydrates)
- Amino acid is polypeptide (protein)
- Nucleotide is DNA / RNA

Condensation reaction vs. hydrolysis reaction

- A condensation reaction...**
- Joins 2 molecules together
 - Removal of a molecule of water (H_2O)
 - Formation of a chemical bond e.g. disulphide bond
- A hydrolysis reaction...**
- Separates 2 molecules
 - Addition of a molecule of water (H_2O)
 - Breaking of a chemical bond

3.1.2 Carbohydrates

Condensation reaction

Forms a glycosidic bond



What is an isomer?

Isomers - when two molecules have the same molecular formula but different structural formulae



Unit 2: Cells

3.2.1.1 Structure of eukaryotic cells

Diagram of eukaryotic cells



Structure and function - cell surface membrane

- Phospholipid bilayer with embedded proteins etc.
- Selectively permeable - enables control of passage of substances in and out
- Barrier between internal and external environments of cell

AS biology (year 1) AQA

Required practical 1- 6

Exam questions

NEW SPEC A Level Biology AQA
Complete AS revision notes topics 1-4
A / A* grade
Example exam questions
Required practical exam question workbook

Relationship between SA:V (and thus the size of an organism) and metabolic rate

Surface area	SA ²	SA ³	SA ⁴
surface	SA ²	SA ³	SA ⁴
surface area	16	64	256
surface	1	1	1

As the size of an organism increases, its surface area increases at a slower rate than its volume. This means that larger organisms have a smaller surface area to volume ratio, which affects their metabolic rate and ability to exchange materials with their environment.

The nature of the genetic code

- Sequence of DNA bases that codes for:
 - The amino acid sequence of a polypeptide
 - A functional RNA e.g. ribosomal RNA and tRNA
- A gene occupies a fixed position, called a locus, on a particular DNA molecule

The nature of the genetic code

- Sequence of DNA bases (or called codons) codes for sequence of amino acids
 - DNA triplet sequence of 3 bases coding for specific amino acid
 - e.g. TGA codes for tryptophan
- Universal
 - The same specific DNA base sequence code for the same amino acids in all living organisms
 - e.g. GAA codes for glutamic acid in all organisms
- Non overlapping
 - Each base can only be used once and in only one triplet
- Degenerate
 - The same amino acid can be coded for by more than one base triplet
 - e.g. tryptophan can be coded for by TGA or TGG

In eukaryotes, much of the DNA doesn't code for polypeptides

- Between genes
 - Regulating multiple regions (or loci) called Transcription Factors (TFs) (and)
- Within genes
 - Regulating multiple regions (or loci) called Transcription Factors (TFs) (and)

Exam questions

1. Explain why the size of a cell is an example of a physical factor.

2. Describe how you might use a 3D model of a protein to predict its function.

3. Explain the change in mass of a protein over time in a 3D model of a protein.

As Level Aqa Biology Notes New Spec A Level Notes

Nick Dixon



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Revise A2 Biology for AQA B Graham Read,Ray

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The School Science Review

,2007 *AQA Entry Level Certificate in Science Student Book* Gareth Price,2016-12-12 Exam Board AQA Level KS3 Subject Science First Teaching September 2016 First Exam June 2017 Inspire students to progress with this fresh and contemporary take on Science brought to life through clear explanations and real world examples that are tailored to the new AQA Entry Level Certificate in Science specification requirements Provides you with a very different sort of textbook to help engage students who are disillusioned or struggling with their science study full of relevant contexts exciting photographs and a sense of fun Offers activities that will demonstrate students understanding in a variety of ways from factual recall and enquiry skills to group discussion and creative artistic tasks Created to support students with lower literacy levels Provides comprehensive support for non specialist or less confident teachers when used in conjunction with the online Teaching Learning resources Offers flexibility to use with either Entry Level students or as a support resources for Foundation tier GCSE Combined Science candidates

The British National Bibliography Arthur James Wells,2005

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Table of Contents As Level Aqa Biology Notes New Spec A Level Notes

1. Understanding the eBook **As Level Aqa Biology Notes New Spec A Level Notes**
 - The Rise of Digital Reading **As Level Aqa Biology Notes New Spec A Level Notes**
 - Advantages of eBooks Over Traditional Books
2. Identifying **As Level Aqa Biology Notes New Spec A Level 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 Aqa Biology Notes New Spec A Level Notes**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **As Level Aqa Biology Notes New Spec A Level Notes**
 - Personalized Recommendations
 - **As Level Aqa Biology Notes New Spec A Level Notes** User Reviews and Ratings
 - **As Level Aqa Biology Notes New Spec A Level Notes** and Bestseller Lists
5. Accessing **As Level Aqa Biology Notes New Spec A Level Notes** Free and Paid eBooks

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