

# Biology notes

## Chapter 1

### 1. Carbohydrates

- Difference between monosaccharides, disaccharides and polysaccharides

Monosaccharides (CH <sub>2</sub> O) <sub>n</sub> (n:3-9)	Disaccharides 2(CH <sub>2</sub> O) <sub>n</sub> -H <sub>2</sub> O	Polysaccharides (C <sub>5</sub> H <sub>10</sub> O <sub>5</sub> ) <sub>n</sub>
Sweet soluble	Sweet soluble	Not sweet insoluble
Reducing sugars	Reducing sugars except sucrose	Not reducing sugars
e.g. glucose, galactose, fructose	e.g. maltose (glucose + glucose) lactose (glucose + galactose) sucrose (glucose + fructose)	Starch Glycogen Cellulose

Draw α-glucose

Draw β-glucose

Draw pentose ribose (C<sub>5</sub>H<sub>10</sub>O<sub>5</sub>)

- Ribose (form RNA) and deoxyribose (form DNA) make nucleotides which form nucleic acid

Draw formation of maltose

Starch

- Mixture of two molecules: Amylose and amylopectin

Amylose	Amylopectin
α-glucose	α-glucose
1,4- glycosidic bond	1,4-glycosidic bond within chains, 1,6-glycosidic bond between chains
Unbranched, helical molecule	Shorter and branched molecule

Why can branched chain be broken down more rapidly?

More ends available for enzymes to work on, can be broken down more quickly

Why are glycogen and starch a good storage molecule?

- Made of many glucose hence can be broken down to release energy during respiration
- Insoluble and large hence won't have osmotic effect
- Compact a lot of glucose can be packed inside this small space
- Large molecule hence cant diffuse

Glycogen

# A Level Biology B

**Rachel Sandford**



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## **Table of Contents A Level Biology B**

1. Understanding the eBook A Level Biology B
  - The Rise of Digital Reading A Level Biology B
  - Advantages of eBooks Over Traditional Books
2. Identifying A Level Biology B
  - 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 A Level Biology B
  - User-Friendly Interface
4. Exploring eBook Recommendations from A Level Biology B
  - Personalized Recommendations
  - A Level Biology B User Reviews and Ratings
  - A Level Biology B and Bestseller Lists

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