

Biology Modules: B4, B5 and B6

B4 – Homeostasis

What makes up homeostasis

- Homeostasis – Maintaining a constant internal environment
 - Keeping everything functioning properly.
 - Water control – Balance between water you gain (food, drink and respiration) and the water you lose (sweat, urine and breathing out); maintaining balance
 - Body temperature – Difference of a cold or warm outside your body keeps a pretty average temperature.
- Control and release can affect homeostasis
 - Nervous system
 - Temperature – When you shiver you generate heat, so your body temperature increases.
 - Water control – How much and how often multiple water excretion rate decreases.
 - Salt levels – Sweat contains salt, so when you sweat it decreases.
 - Endocrine system
 - Hot climates – Sweat excretion increases
 - Cold climates – Can cause your body temperature to decrease rapidly
- Humidity/Climate
 - Temperature increase and cold climate. High humidity also affect blood oxygen levels, so they're better contributing to altitude sickness.
- Active living
 - Temperature drops in cold water, prevents more sweat output to avoid when you sweat and if you sweat inputted you can develop more trouble

Negative Feedback

- Negative feedback mechanisms change
 - Different cell types producing responses and everything is back to the centre
- Some artificial systems work like body control systems
 - Like the thermostat, has two paths off, one cold switches on



Diffusion

- Diffusion is the passive overall movement of particles from a region of higher concentration to a region of lower concentration
 - The bigger the difference in concentration, the faster the diffusion rate
- Some chemicals can move in and out of cells by diffusion
 - Cells produce CO₂, which means there's a difference of it in cells than the blood, it diffuses into the blood to be carried away

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Table of Contents Ocr Biology B4 B6 12 June 2014 Mark Scheme

1. Understanding the eBook Ocr Biology B4 B6 12 June 2014 Mark Scheme
 - The Rise of Digital Reading Ocr Biology B4 B6 12 June 2014 Mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying Ocr Biology B4 B6 12 June 2014 Mark Scheme
 - 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 Ocr Biology B4 B6 12 June 2014 Mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr Biology B4 B6 12 June 2014 Mark Scheme
 - Personalized Recommendations
 - Ocr Biology B4 B6 12 June 2014 Mark Scheme User Reviews and Ratings
 - Ocr Biology B4 B6 12 June 2014 Mark Scheme and Bestseller Lists

5. Accessing Ocr Biology B4 B6 12 June 2014 Mark Scheme Free and Paid eBooks
 - Ocr Biology B4 B6 12 June 2014 Mark Scheme Public Domain eBooks
 - Ocr Biology B4 B6 12 June 2014 Mark Scheme eBook Subscription Services
 - Ocr Biology B4 B6 12 June 2014 Mark Scheme Budget-Friendly Options
6. Navigating Ocr Biology B4 B6 12 June 2014 Mark Scheme eBook Formats
 - ePub, PDF, MOBI, and More
 - Ocr Biology B4 B6 12 June 2014 Mark Scheme Compatibility with Devices
 - Ocr Biology B4 B6 12 June 2014 Mark Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocr Biology B4 B6 12 June 2014 Mark Scheme
 - Highlighting and Note-Taking Ocr Biology B4 B6 12 June 2014 Mark Scheme
 - Interactive Elements Ocr Biology B4 B6 12 June 2014 Mark Scheme
8. Staying Engaged with Ocr Biology B4 B6 12 June 2014 Mark Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ocr Biology B4 B6 12 June 2014 Mark Scheme
9. Balancing eBooks and Physical Books Ocr Biology B4 B6 12 June 2014 Mark Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocr Biology B4 B6 12 June 2014 Mark Scheme
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ocr Biology B4 B6 12 June 2014 Mark Scheme
 - Setting Reading Goals Ocr Biology B4 B6 12 June 2014 Mark Scheme
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ocr Biology B4 B6 12 June 2014 Mark Scheme
 - Fact-Checking eBook Content of Ocr Biology B4 B6 12 June 2014 Mark Scheme
 - 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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