

# 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 colder water 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
- Temperature change
  - Temperature increase and cold climate. High altitudes also affect blood oxygen levels, so they're further contributing to altitude sickness.
- Active living
  - Temperature drops in cold water, prevents you from being in water for too long and if you could be pushed you can develop oxygen toxicity

### 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 CO<sub>2</sub>, which means there's a difference of it in cells than the blood, it diffuses into the blood to be carried away

# June 2013 Gcse Biology B4 B5 B6

**G Psacharopoulos**



**June 2013 Gcse Biology B4 B5 B6:**

This book delves into June 2013 Gcse Biology B4 B5 B6. June 2013 Gcse Biology B4 B5 B6 is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into June 2013 Gcse Biology B4 B5 B6, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to June 2013 Gcse Biology B4 B5 B6
- Chapter 2: Essential Elements of June 2013 Gcse Biology B4 B5 B6
- Chapter 3: June 2013 Gcse Biology B4 B5 B6 in Everyday Life
- Chapter 4: June 2013 Gcse Biology B4 B5 B6 in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of June 2013 Gcse Biology B4 B5 B6. The first chapter will explore what June 2013 Gcse Biology B4 B5 B6 is, why June 2013 Gcse Biology B4 B5 B6 is vital, and how to effectively learn about June 2013 Gcse Biology B4 B5 B6.
3. In chapter 2, the author will delve into the foundational concepts of June 2013 Gcse Biology B4 B5 B6. The second chapter will elucidate the essential principles that need to be understood to grasp June 2013 Gcse Biology B4 B5 B6 in its entirety.
4. In chapter 3, this book will examine the practical applications of June 2013 Gcse Biology B4 B5 B6 in daily life. This chapter will showcase real-world examples of how June 2013 Gcse Biology B4 B5 B6 can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of June 2013 Gcse Biology B4 B5 B6 in specific contexts. The fourth chapter will explore how June 2013 Gcse Biology B4 B5 B6 is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about June 2013 Gcse Biology B4 B5 B6. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of June 2013 Gcse Biology B4 B5 B6.

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