

1: Biodiversity and classification of micro-organisms

Introduction

The classification of organisms

Viruses

- Structure and characteristics of viruses

Bacteria

- Characteristics of bacteria
- Structural characteristics
- Nutrition of bacteria
- Reproduction of bacteria

Protista

- Characteristics of Protista
- Three groups of Protista

Fungi

- Characteristics
- Activity 1: Kingdoms
- Activity 2: Practical investigation

The role that micro-organisms play in maintaining a balance in the environment

- in food chains
- as decomposers
- in the nitrogen cycle

Symbiotic relationships

Lichens

- The relationship between nitrogen fixing bacteria and plants
- The relationship between *E. coli* and the human intestine
- Mycorrhizal fungi and the roots of higher plants

- Activity 3: Nitrogen use

Diseases caused by micro-organisms

- Diseases caused by viruses

Rabies

HEV / AIDS

Influenza

Diseases caused by bacteria

Blight

Cholera

Tuberculosis

Anthrax

Diseases caused by Protista

Malaria

Diseases caused by fungi

Rusts

Thrush

Ringworm

Athlete's foot

Activity 4: Diseases

Immunity

- The response of plants against an infecting micro-organism

- The response of animals against an infecting micro-organism

Lymphocytes

Phagocytes

Vaccinations

The use of drugs to fight infecting micro-organisms

Antibiotics

Biotechnology

- The making of antibiotics

- The making of insulin

Traditional technology

End of topic exercises

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Roman Wölfel



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Table of Contents Grd11 Paper3 Life Sciences

1. Understanding the eBook Grd11 Paper3 Life Sciences
 - The Rise of Digital Reading Grd11 Paper3 Life Sciences
 - Advantages of eBooks Over Traditional Books
2. Identifying Grd11 Paper3 Life Sciences
 - 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 Grd11 Paper3 Life Sciences
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grd11 Paper3 Life Sciences
 - Personalized Recommendations
 - Grd11 Paper3 Life Sciences User Reviews and Ratings
 - Grd11 Paper3 Life Sciences and Bestseller Lists

5. Accessing Grd11 Paper3 Life Sciences Free and Paid eBooks
 - Grd11 Paper3 Life Sciences Public Domain eBooks
 - Grd11 Paper3 Life Sciences eBook Subscription Services
 - Grd11 Paper3 Life Sciences Budget-Friendly Options
6. Navigating Grd11 Paper3 Life Sciences eBook Formats
 - ePub, PDF, MOBI, and More
 - Grd11 Paper3 Life Sciences Compatibility with Devices
 - Grd11 Paper3 Life Sciences Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grd11 Paper3 Life Sciences
 - Highlighting and Note-Taking Grd11 Paper3 Life Sciences
 - Interactive Elements Grd11 Paper3 Life Sciences
8. Staying Engaged with Grd11 Paper3 Life Sciences
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grd11 Paper3 Life Sciences
9. Balancing eBooks and Physical Books Grd11 Paper3 Life Sciences
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grd11 Paper3 Life Sciences
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grd11 Paper3 Life Sciences
 - Setting Reading Goals Grd11 Paper3 Life Sciences
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grd11 Paper3 Life Sciences
 - Fact-Checking eBook Content of Grd11 Paper3 Life Sciences
 - 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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