

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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