

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

November 2012 Life Science Grd11

Michael Brown



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Empowering Science and Mathematics for Global Competitiveness Yuli Rahmawati, Peter Charles Taylor, 2019-06-07 This conference proceedings focuses on enabling science and mathematics practitioners and citizens to respond to the pressing challenges of global competitiveness and sustainable development by transforming research and teaching of science and mathematics The proceedings consist of 82 papers presented at the Science and Mathematics International Conference SMIC 2018 organised by the Faculty of Mathematics and Natural Sciences Universitas Negeri Jakarta Indonesia The proceedings are organised in four parts Science Science Education Mathematics and Mathematics Education The papers contribute to our understanding of important contemporary issues in science especially nanotechnology materials and environmental science science education in particular environmental sustainability STEM and STEAM education 21st century skills technology education and green chemistry and mathematics and its application in statistics computer science and mathematics education *Innovative Technologies and Learning* Yueh-Min Huang, Chin-Feng Lai, Tânia Rocha, 2021-11-23 This book constitutes the refereed proceedings of the 4th International Conference on Innovative Technologies and Learning ICITL 2021 held in November December 2021 Due to COVID 19 pandemic the conference was held virtually The 59 full papers presented together with 2 short papers were carefully reviewed and selected from 110 submissions The papers are organized in the following topical sections Artificial Intelligence in Education Augmented Virtual and Mixed Reality in Education Computational Thinking in Education Design Framework and Model for Innovative learning Education Practice Issues and Trends Educational Gamification and Game based Learning Innovative Technologies and Pedagogies Enhanced Learning Multimedia Technology Enhanced Learning Online Course and Web Based Environment and Science Technology Engineering Arts and Design and Mathematics *Values Education on Human Sexuality* Robert Z. Cortes, Marie Adelaide D. Murrf Trinidad, Charming May DA Guce, Ma. Concha B. De La Cruz, Theresa Ma. B. Cortes, SPECIAL QUESTIONS FOR GRADE 11 THE AGE OF DEEPENING The book series is all about education in human sexuality based on the nourishment and cultivation of the natural gift of a person s character The series is based on the premise that SEXUALITY EDUCATION is basically CHARACTER EDUCATION which in turn is founded on human dignity and encompasses formation in moral standards and human conduct hence covering the key elements of life and love and everything in between Comprising an introductory volume for parents and teachers a volume for classroom use of teachers a volume for parents and eight volumes for Grades 5 to 12 respectively this current volume is specifically addressed to Grade 6 pupils about 17 to 18 year olds in their late adolescence It talks about SPECIAL QUESTIONS on issues concerning life sex marriage and human identity Since men and women have been gifted with intellect and will one becomes highly capable of using well or abusing these powers for the good or damage of self and fellowmen It is thus extremely important that students at this age have a deep appreciation of the issues confronting the modern world especially in the realm of sexuality and the channels of its

development The book series is characterized by sound perennial concepts and by teaching and learning tools geared towards the age group being addressed

Proceedings Of The 14th International Congress On Mathematical Education (In 2 Volumes) Jianpan Wang, 2024-06-07 The International Congress on Mathematical Education ICME is the largest international conference on mathematics education in the world This quadrennial event is organized under the auspices of the International Commission on Mathematical Instruction ICMI This book the Proceedings of ICME 14 presents the latest trends in mathematics education research and mathematics teaching practices at all levels Each chapter covers an extensive range of topics in mathematics education Volume I consists of 4 Plenary Lectures 3 Plenary Panels 5 Lectures of Awardees 4 Survey Teams 62 Topic Study Groups 13 Discussion Groups 20 Workshops a Thematic Afternoon and an Early Career Researcher Day Plenary Lectures recognize substantial and continuing contributions to the growth of the field of Mathematics Education Plenary Panels address three major challenges currently facing mathematics educators across the globe The Survey Teams have a particular emphasis on identifying and characterizing important new knowledge recent developments new perspectives and emergent issues The Topic Study Groups provides a coverage of important topics in mathematics education Volume II consists of 50 invited lectures which present the work and reflections of both established and emerging researchers from around the world These lectures cover a wide spectrum of topics themes and issues that reflect the latest challenges and development in the field of mathematics education

Neuroscience, Learning and Educational Psychology María Jesús Luque Rojas, Eduardo Blanco Calvo, María Teresa Martín-Aragoneses, 2022-08-25

Who's Who in America Marquis Who's Who, Inc, 2002

Unveiling the Power of Verbal Art: An Psychological Sojourn through **November 2012 Life Science Grd11**

In some sort of inundated with monitors and the cacophony of instantaneous conversation, the profound energy and mental resonance of verbal artistry often disappear into obscurity, eclipsed by the constant onslaught of noise and distractions. Yet, situated within the lyrical pages of **November 2012 Life Science Grd11**, a interesting work of fictional beauty that pulses with organic emotions, lies an unforgettable trip waiting to be embarked upon. Published with a virtuoso wordsmith, this interesting opus books visitors on a psychological odyssey, gently exposing the latent potential and profound impact stuck within the complex internet of language. Within the heart-wrenching expanse of the evocative analysis, we shall embark upon an introspective exploration of the book is key styles, dissect its interesting writing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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