

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

Protists

- Characteristics of Protists
- Three groups of Protists

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 Protists

Malaria

Diseases caused by fungi

Rusts

Thrush

Ringworms

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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AW Chickering



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Research in Education ,1972 *Resources in Education* ,1997 **Resources for Teaching Elementary School**

Science National Science Resources Center of the National Academy of Sciences and the Smithsonian Institution,1996-03-28

What activities might a teacher use to help children explore the life cycle of butterflies What does a science teacher need to conduct a leaf safari for students Where can children safely enjoy hands on experience with life in an estuary Selecting resources to teach elementary school science can be confusing and difficult but few decisions have greater impact on the effectiveness of science teaching Educators will find a wealth of information and expert guidance to meet this need in *Resources for Teaching Elementary School Science* A completely revised edition of the best selling resource guide *Science for Children* *Resources for Teachers* this new book is an annotated guide to hands on inquiry centered curriculum materials and sources of help in teaching science from kindergarten through sixth grade Companion volumes for middle and high school are planned The guide annotates about 350 curriculum packages describing the activities involved and what students learn Each annotation lists recommended grade levels accompanying materials and kits or suggested equipment and ordering information These 400 entries were reviewed by both educators and scientists to ensure that they are accurate and current and offer students the opportunity to Ask questions and find their own answers Experiment productively Develop patience persistence and confidence in their own ability to solve real problems The entries in the curriculum section are grouped by scientific area Life Science Earth Science Physical Science and Multidisciplinary and Applied Science and by type core materials supplementary materials and science activity books Additionally a section of references for teachers provides annotated listings of books about science and teaching directories and guides to science trade books and magazines that will help teachers enhance their students science education *Resources for Teaching Elementary School Science* also lists by region and state about 600 science centers museums and zoos where teachers can take students for interactive science experiences Annotations highlight almost 300 facilities that make significant efforts to help teachers Another section describes more than 100 organizations from which teachers can obtain more resources And a section on publishers and suppliers give names and addresses of sources for materials The guide will be invaluable to teachers principals administrators teacher trainers science curriculum specialists and advocates of hands on science teaching and it will be of interest to parent teacher organizations and parents **The Science Teacher** ,1994 A Guide to the Use and

Appreciation of English, Grades Seven to Twelve Philadelphia (Pa.). Board of Public Education,1950 The Independent ,1910 **Library Media Connection** ,1995 **Reference Books Bulletin** ,1997 **Resources in Education** ,1997

Technology Enhanced Learning for Inclusive and Equitable Quality Education Rafael Ferreira Mello,Nikol Rummel,Ioana Jivet,Gerti Pishtari,José A. Ruipérez Valiente,2024-09-12 The two volume set LNCS 15159 and 15160 constitutes the proceedings of 19th European Conference on Technology Enhanced Learning EC TEL 2024 which took place in Krems

Austria in September 2024 The 37 full papers 25 poster papers and 10 demo papers presented in the proceedings were carefully reviewed and selected from 140 submissions for research papers and 26 poster and 19 demo submissions They focus on effective technology adoption in educational settings ethical concerns and the possible digital divide these technologies could create The theme for the 2024 conference aimed to explore the role of Technology Enhanced Learning TEL in this critical context and in achieving the United Nations Sustainable Development Goal for education Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all The Elementary School Library Collection, Phases 1-2-3 ,1976 **Illinois Education** ,1963 **Author Index to Psychological Abstracts** ,1964 *Choice* ,2007-03 *English Your Language* Josephine B. Wolfe,Doris E. Dorsey,1963 CTA Journal ,1958 **Sierra Educational News** California Teachers Association,1959 *The Elementary School Library Collection* Lois Winkel,1982 **The Elementary School Library Collection** ,1976 **New England Journal of Education** Thomas Williams Bicknell,Albert Edward Winship,Anson Wood Belding,1896

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