



Kindergarten Science Unit 09 Exemplar Lesson 02: Exploring Physical Characteristics of Organisms

This lesson is one approach to teaching the State Standards associated with this unit. Districts are encouraged to customize this lesson by supplementing with district-approved resources, materials, and activities to best meet the needs of learners. The duration for this lesson is only a recommendation, and districts may modify the time frame to meet students' needs. To better understand how your district may be implementing CSCOPE lessons, please contact your child's teacher. (For your convenience, please find linked the TEA Commissioner's List of [State Board of Education Approved Instructional Resources](#) and [Midcycle State Adopted Instructional Materials](#).)

Lesson Synopsis

Students will be exploring the physical characteristics of both plants and animals. The emphasis with animals is on color, size, and body covering. The emphasis with plants is on leaf shape.

TEKS

The Texas Essential Knowledge and Skills (TEKS) listed below are the standards adopted by the State Board of Education, which are required by Texas law. Any standard that has a strike-through (e.g., sample phrase) indicates that portion of the standard is taught in a previous or subsequent unit. The TEKS are available on the Texas Education Agency website at <http://www.tea.state.tx.us/index2.aspx?id=6148>.

K.10 *Organisms and environments. The student knows that organisms resemble their parents and have structures and processes that help them survive within their environments. The student is expected to:*

K.10A *Sort plants and animals into groups based on physical characteristics such as color, size, body covering, or leaf shape.*

Scientific Process TEKS

K.2 *Scientific investigation and reasoning. The student develops abilities to ask questions and seek answers in classroom and outdoor investigations. The student is expected to:*

K.2D *Record and organize data and observations using pictures, numbers, and words.*

K.4 *Scientific investigation and reasoning. The student uses age-appropriate tools and models to investigate the natural world. The student is expected to:*

K.4B *Use senses as a tool of observation to identify properties and patterns of organisms, objects, and events in the environment.*

GETTING READY FOR INSTRUCTION

Performance Indicators

Kindergarten Science Unit 09 PI 02

Sort a set of pictures of plants into groups based on their physical characteristics, such as leaf shape, color, and size, and justify the groups made.

AND

Sort a set of pictures of animals into groups based on their physical characteristics, such as body covering, color, and size, and justify the groups made.

Standard(s): K.2D , K.10A

ELPS ELPS.c.1E , ELPS.c.3D

Key Understandings

- Animals can be identified and sorted by their coverings (exoskeletons, skin, feathers, or scales).
 - Which animals have the coverings of fur, feathers, and scales?
- Animals need coverings (skin, feathers, or scales) to protect them from their environment, as well as from other animals.
 - Why do animals have coverings?
- Plants and animals have observable characteristics that can be used to compare and sort them into groups.
 - What are some of the observable characteristics of animals?
 - What are some of the observable characteristics of plants?

Vocabulary of Instruction

- physical characteristics
- color
- size
- large
- small
- body covering
- skin
- hair/fur
- feathers
- scales
- leaf shape
- sort
- group

Physical Science Gradepcaps Exemplar

Richard Bailey



Physical Science Grade 12 Exemplar:

Physical Science Mr. Rohit Manglik, 2024-07-15 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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Study and Master Agricultural Sciences Grade 12 CAPS Teacher's File Altus Strydom, Henricho Ferreira, Peter J. Holmes, 2014-06-26 Study Master Agricultural Sciences Grade 12 has been especially developed by an experienced author team for the Curriculum and Assessment Policy Statement CAPS This new and easy to use course helps learners to master essential content and skills in Agricultural Sciences

Standards-Based Science Investigations, Grade 5 Robert W. Smith, 2008-08 Through content area reading hands on experiences and inquiry investigations young scientists learn the essential concepts of science The language is clear simple and scientifically correct The imaginative and effective lessons cover life earth and physical sciences Helpful extras include science inquiry worksheets an inquiry assessment rubric and alignment to standards

Educational Assessment in a Time of Reform Coert Loock, Vanessa Scherman, 2019-11-20 Educational Assessment in a Time of Reform provides background information on large scale examination systems more generally and the South African examination specifically It traces the reforms in the education system of South Africa since 1994 and provides a description of the advances in modern test theory that could be considered for future standard setting endeavours At the heart of the book is the debate on whether the current standard of education in Africa is good enough If not then how can it be improved The aim of this book is to provide a point of departure for discussions on standard setting quality assurance equating of examinations and assessment approaches From this point of departure recommendations for practices in general and the exit level Grade 12 examination results in particular

can be made This book is ideal reading for principals teachers academics and researchers in the fields of educational assessment measurement and evaluation **Chemical News and Journal of Physical Science** ,1920

Representations of Nature of Science in School Science Textbooks Christine McDonald,Fouad Abd-El-Khalick,2017-04-21 Bringing together international research on nature of science NOS representations in science textbooks the unique analyses presented in this volume provides a global perspective on NOS from elementary to college level and discusses the practical implications in various regions across the globe Contributing authors highlight the similarities and differences in NOS representations and provide recommendations for future science textbooks This comprehensive analysis is a definitive reference work for the field of science education Science Scope ,2003 The Chemical News and Journal of Physical Science ,1920 **Chemical News and Journal of Physical Science** William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1920 Technical Training. Being a Suggestive Sketch of a National System of Industrial Instruction, Founded on a General Diffusion of Practical Science Among the People Thomas Twining (of Perryn House, Twickenham.),1874 Examination of the U.S. Air Force's Science, Technology, Engineering, and Mathematics (STEM) Workforce Needs in the Future and Its Strategy to Meet Those Needs National Research Council,Division on Engineering and Physical Sciences,Air Force Studies Board,Committee on Examination of the U.S. Air Force's Science, Technology, Engineering, and Mathematics (STEM) Workforce Needs in the Future and Its Strategy to Meet Those Needs,2010-12-09 The Air Force requires technical skills and expertise across the entire range of activities and processes associated with the development fielding and employment of air space and cyber operational capabilities The growing complexity of both traditional and emerging missions is placing new demands on education training career development system acquisition platform sustainment and development of operational systems While in the past the Air Force s technologically intensive mission has been highly attractive to individuals educated in science technology engineering and mathematics STEM disciplines force reductions ongoing military operations and budget pressures are creating new challenges for attracting and managing personnel with the needed technical skills Assessments of recent development and acquisition process failures have identified a loss of technical competence within the Air Force that is in house or organic competence as opposed to contractor support as an underlying problem These challenges come at a time of increased competition for technical graduates who are U S citizens an aging industry and government workforce and consolidations of the industrial base that supports military systems In response to a request from the Deputy Assistant Secretary of the Air Force for Science Technology and Engineering the National Research Council conducted five fact finding meetings at which senior Air Force commanders in the science and engineering acquisition test operations and logistics domains provided assessments of the adequacy of the current workforce in terms of quality and quantity **Technical Training** Thomas Twining,1874 **Comparing science content in the National Assessment of Educational Progress**

(NEAP) 2000 and Trends in International Mathematics and Science Study (TIMSS) 2003 assessments technical report. ,2006 Encyclopedia of Physical Science and Technology Robert Allen Meyers,1987 Literary Gazette and Journal of Belles Lettres, Arts, Sciences, &c ,1848 Industrial Arts & Vocational Education ,1921

Resources in Education ,1990 Catalog of Educational Captioned Films/videos for the Deaf ,1988 Henry's Clinical Diagnosis and Management by Laboratory Methods E-Book Richard A. McPherson,Matthew R. Pincus,2011-09-06 Recognized as the definitive book in laboratory medicine since 1908 Henry s Clinical Diagnosis and Management by Laboratory Methods edited by Richard A McPherson MD and Matthew R Pincus MD PhD is a comprehensive multidisciplinary pathology reference that gives you state of the art guidance on lab test selection and interpretation of results Revisions throughout keep you current on the latest topics in the field such as biochemical markers of bone metabolism clinical enzymology pharmacogenomics and more A user friendly full color layout puts all the latest most essential knowledge at your fingertips Update your understanding of the scientific foundation and clinical application of today s complete range of laboratory tests Get optimal test results with guidance on error detection correction and prevention as well as cost effective test selection Reference the information you need quickly and easily thanks to a full color layout many new color illustrations and visual aids and an organization by organ system Master all the latest approaches in clinical laboratory medicine with new and updated coverage of the chemical basis for analyte assays and common interferences lipids and dyslipoproteinemia markers in the blood for cardiac injury evaluation and related stroke disorders coagulation testing for antiplatelet drugs such as aspirin and clopidogrel biochemical markers of bone metabolism clinical enzymology hematology and transfusion medicine medical microbiology body fluid analysis and many other rapidly evolving frontiers in the field Effectively monitor the pace of drug clearing in patients undergoing pharmacogenomic treatments with a new chapter on this groundbreaking new area Apply the latest best practices in clinical laboratory management with special chapters on organization work flow quality control interpretation of results informatics financial management and establishing a molecular diagnostics laboratory Confidently prepare for the upcoming recertification exams for clinical pathologists set to begin in 2016

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