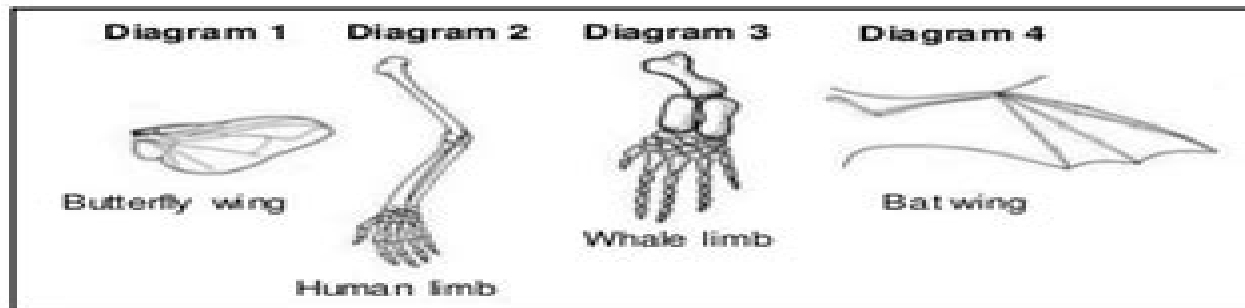


2.4 Study the diagrams below showing structures of different organisms.



- 2.4.1 Which diagram represents a structure that is analogous to the structure in Diagram 4? (1)
- 2.4.2 Write down the numbers of any TWO diagrams that represent homologous structures. (2)
- 2.4.3 What information do analogous and homologous structures provide about evolution? (2)

(5)
[40]

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Kathleen Stassen Berger



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Meeting the Challenges to Measurement in an Era of Accountability Henry Braun, 2016-01-29 Under pressure and support from the federal government states have increasingly turned to indicators based on student test scores to evaluate teachers and schools as well as students themselves The focus thus far has been on test scores in those subject areas where there is a sequence of consecutive tests such as in mathematics or English language arts with a focus on grades 4-8 Teachers in these subject areas however constitute less than thirty percent of the teacher workforce in a district Comparatively little has been written about the measurement of achievement in the other grades and subjects This volume seeks to remedy this imbalance by focusing on the assessment of student achievement in a broad range of grade levels and subject areas with particular attention to their use in the evaluation of teachers and schools in all It addresses traditional end of course tests as well as alternative measures such as portfolios exhibitions and student learning objectives In each case issues related to design and development psychometric considerations and validity challenges are covered from both a generic and a content specific perspective The NCME Applications of Educational Measurement and Assessment series includes edited volumes designed to inform research based applications of educational measurement and assessment Edited by leading experts these books are comprehensive and practical resources on the latest developments in the field The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

Creating Effective Teaching and Learning Spaces: Shaping Futures and Envisioning Unity in Diversity and Transformation Zilungile Lungi Sosibo, Eunice Ivala, 2021-09-07 Higher education in post apartheid South Africa was always likely to attract academic interest and yet there remains a dearth of research on creating teaching and learning spaces suitable for students from diverse backgrounds Using examples from higher education institutions across the Southern African Developing Community SADC region this volume explores the ways teaching and learning spaces are being used to advance the transformation agenda of higher education in these regions and provides concrete recommendations for the future The book is sure to appeal to academics from a variety of disciplines from African African American and ethnic studies to education and sociology It will be of particular interest to teacher trainers administrators and policy makers working in higher education and anyone else with a stake in managing cultural diversity in education

Evolution Education Around the Globe Hasan Deniz, Lisa A. Borgerding, 2018-06-21 This edited book provides a global view on evolution education It describes the state of evolution education in different countries that are representative of geographical regions around the globe such as Eastern Europe Western Europe North Africa South Africa North America South America Middle East Far East South East Asia Australia and New Zealand Studies in evolution education literature can be divided into three main categories a understanding the interrelationships among cognitive affective epistemological and religious factors that are related to peoples views about evolution b designing implementing evaluating evolution education

curriculum that reflects contemporary evolution understanding and c reducing antievolutionary attitudes This volume systematically summarizes the evolution education literature across these three categories for each country or geographical region The individual chapters thus include common elements that facilitate a cross cultural meta analysis Written for a primarily academic audience this book provides a much needed common background for future evolution education research across the globe

Language in Writing Instruction María Estela Brisk,2020-09-22 Accessible and engaging this book offers a comfortable entry point to integrating language instruction in writing units in grades 3 8 A full understanding of language development is necessary for teaching writing in a successful and meaningful way Applying a Systemic Functional Linguistics SFL approach Mar a Brisk embraces an educator s perspective breaks down the challenges of teaching language for non linguists and demonstrates how teachers can help students express their ideas and create cohesive texts With a focus on the needs of all students including bilingual and English language learners Brisk addresses topics necessary for successful language instruction and moves beyond vocabulary and grammar to address meaning making and genre This book provides a wealth of tools and examples for practice and includes helpful instructional resources that teachers can return to time after time Moving from theory to practice this teacher friendly text is a vital resource for courses in language education programs in service teacher training seminars and for pre service and practicing English Language Arts ELA teachers who want to expand their teaching abilities and knowledge bases This book features a sample unit and a reference list of instructional resources

Handbook of Research on Maximizing Cognitive Learning through Knowledge Visualization Ursyn, Anna,2015-02-28 The representation of abstract data and ideas can be a difficult and tedious task to handle when learning new concepts however the advances of emerging technology have allowed for new methods of representing such conceptual data The Handbook of Research on Maximizing Cognitive Learning through Knowledge Visualization focuses on the use of visualization technologies to assist in the process of better comprehending scientific concepts data and applications Highlighting the utilization of visual power and the roles of sensory perceptions computer graphics animation and digital storytelling this book is an essential reference source for instructors engineers programmers and software developers interested in the exchange of information through the visual depiction of data

"Code of Massachusetts regulations, 2014",2014 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020

STEM Learning with Young Children Shelly Counsell, Lawrence Escalada, Rosemary Geiken, Melissa Sander, Jill Uhlenberg, Beth Van Meeteren, Sonia Yoshizawa, Betty Zan,2016 This teacher s guide provides the background information STEM concepts and strategies needed to successfully implement an early STEM curriculum Ramps and Pathways with young children ages 3 8 R P actively engages young children in designing and building ramp structures using wooden cove molding releasing marbles on the structures and observing what happens Children use logical mathematical thinking and problem solving skills as they explore science concepts related to motion force and energy This

guide helps teachers to Structure and organize an engaging STEM learning environment Understand and promote logical mathematical and scientific thinking during investigations Promote social settings that enhance communication cooperation and collaboration Make the necessary accommodations and modifications for diverse learners Integrate STEM concepts and skills with other content areas Align teaching and learning with Next Generation Science Standards NGSS and Common Core State Standards CCSS Assess STEM learning using formative and summative assessments Establish adult learning communities to support ongoing professional development Help children develop habits and behaviors that contribute to positive attitudes toward STEM This one of a kind resource uses a newly created Inquiry Teaching Model ITM as the conceptual framework and devotes specific attention to the importance of an inclusive and social STEM learning environment in which children are free to collaborate take risks and investigate within the context of exploratory and constructive play

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McCloskey Campbell Ph D is Assistant Professor of Chemistry at Georgia Perimeter College Dunwoody GA Shaun Murphree Ph D is Assistant Professor of Chemistry at Allegheny College Meadville PA Jennifer M Warner Ph D teaches biology at the University of North Carolina Charlotte Amy B Wachholz Ph D is Director of Health Psychology at UMass Medical School Worcester MA Kathy A Zahler MS is a widely published test prep author *Catalog of Federal Domestic Assistance* United States. Office of Management and Budget,2010 Biological Abstracts Jacob Richard Schramm,1927 **Documentation Abstracts** ,1984 **Books in Print Supplement** ,2002 **Normal Instructor** ,1930 **Metals Abstracts** ,1990 *The Practice of Statistics for AP* Daren Starnes,David S. Moore,Dan Yates,Josh Tabor,2014-03-01 The Practice of Statistics TPS is written specifically to address the College Board AP Statistics Course Description Now the overwhelming bestseller for the course returns in a spectacular new edition **Catalogs of Courses** University of California, Berkeley,1978 Includes general and summer catalogs issued between 1878 1879 and 1995 1997 Government Reports Announcements & Index ,1992

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