

GRADE 9 NATURAL SCIENCES TERM 4

THE EARTH AS A SYSTEM



Week 1

What is a "system"?

It can be described as a group of things/different parts that work together to make something work.

Different parts of the Earth:

Air

Land / country

Water

Life



These are called "spheres". there is no beginning and end in a sphere, therefore, it can also be called a "cycle".

Let's analyze each sphere:

Atmosphere - it is a layer of gases around the Earth.

Hydrosphere – this refers to water in various forms; liquid, solid and gas.

Lithosphere – this is solid rock and soil that makes up the Earth's surface.

Biosphere – all living things that live together.



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Complexity and Simplicity in Science Education David Geelan, Kim Nichols, Christine V. McDonald, 2022-01-25 This edited volume brings together a broad range of international science education studies focusing on the interplay of teaching and learning science It recognizes the complexity present in today's education associated with major science related issues faced by society such as climate change diseases and pandemics global conflicts over energy food and water The studies discussed in this volume are focused on presenting different opportunities to teach these convoluted matters in order to find simplicity within the complexity and make it accessible to learners They bring together the challenges of preparing the students of today to become scientifically informed citizens of tomorrow *Translanguaging, Coloniality and Decolonial Cracks* Robyn Tyler, 2023-01-13 In this linguistic ethnography of bilingual science learning in a South African high school the author connects microanalyses of classroom discourse to broader themes of de coloniality in education The book challenges the deficit narrative often used to characterise the capabilities of linguistically minoritised youth and explores the challenges and opportunities associated with leveraging students full semiotic repertoires in learning specific concepts The author examines the linguistic landscape of the school and the beliefs and attitudes of staff and students which produce both coloniality and cracks in the edifice of coloniality A critical translanguaging lens is applied to analyse multilingual and multimodal aspects of students science meaning making in a traditional classroom and a study group intervention Finally the book suggests implications for decolonial pedagogical translanguaging in Southern multilingual classrooms **Annual Catalogue** University of Chicago, 1919 *Natural Science Teaching in Great Britain* Arthur Jay Klein, Glen Levin Swiggett, John Dorsey Wolcott, Mary Burchard Orvis, Peter Henry Pearson, United States. Bureau of Education, United States. Office of Education. Statistical Division, Walter Alexander Montgomery, Walton Simon Bittner, William Orr, 1919 **Annual Register** University of Chicago, 1922 **Catalogue of the Officers and Students for the Academical Year** Ohio Wesleyan University, 1905 **Catalogue of Ohio Wesleyan University for ..., Delaware, Ohio** Ohio Wesleyan University, 1907 The Educational Annual, 1890 *Summer Sessions Information and Class Schedules Bulletin* University of Nebraska--Lincoln. Summer Sessions Office, 1918 Note 1973 77 editions formerly classified U0500T001 Bulletin of Information University of Chicago, 1921 **General Catalog - Texas Tech University** Texas Tech University, 1929 **Boys' Life**, 1970-03 Boys Life is the official youth magazine for the Boy Scouts of America Published since 1911 it contains a proven mix of news nature sports history fiction science comics and Scouting **Thesaurus of ERIC Descriptors**, 1977 Journal of the Academy of Natural Sciences of Philadelphia Academy of Natural Sciences of Philadelphia, 1902 **Boys' Life**, 1971-04 Boys Life is the official youth magazine for the Boy Scouts of America Published since 1911 it contains a proven mix of news nature sports history fiction science comics and Scouting **The Public Schools**, 1916 *The Lancet*, 1885 **The Bone Sharp** Jane P. Davidson, 1997 *The Athenaeum*, 1871 **Scientific**

Proceedings of the Ohio Mechanics' Institute Ohio Mechanics' Institute, 1882

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web the relative electronegativities of the bonded atoms is $\text{H} < \text{C} < \text{Cl}$ and so the bond moments all point toward the Cl end of the molecule and sum to yield a considerable dipole moment the molecules are relatively polar for molecules of high symmetry such as BF_3 trigonal planar CH_4 tetrahedral PF_5 trigonal bipyramidal and SF_6

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