

NATURAL SCIENCES

Gr. 9 - LESSON PLAN - MATTER & MATERIALS

TOPIC: COMPOUNDS		
Sub-topic: Names of Compounds		Duration: 1 Hour
CONTENT & CONCEPTS (CAPS p63)		
KEY CONCEPTS <ol style="list-style-type: none"> 1. Chemical reaction 2. Chemical formula 3. Names of compounds according to their elements. 		
Specific Aims:	Specific Aim 1: 'Doing Science'	X
	Specific Aim 2: 'Knowing the subject content and making connections'	X
	Specific Aim 3: 'Understanding the uses of Science'	
LESSON OBJECTIVES: <ol style="list-style-type: none"> 1. Learners will be able to write the names of compounds as indicated on page 63 of the CAPS Document. 2. Learners will be able to make models of different compounds 		
RESOURCES REQUIRED: <ul style="list-style-type: none"> • Periodic Table Poster • Siyavula Sasol Inzalo (Learner book) page 163 		
TEACHING & LEARNING ACTIVITY: Introduction <u>Briefly review and revise concepts dealt with in Grade 8, focusing on compounds</u> As each element has a unique name for example: <ul style="list-style-type: none"> - Hydrogen - Lithium Remember the first 20 elements learnt in grade 8. How did you memorize them? Do you remember Mnemonics... He - H; He - He; Lies - Li; Because - Be; Boys - B; Can - C; Not - N; Operate - O; Fireplaces - F; New - Ne; Nation - Na; Might - Mg; Also - Al; Sign - Si; Peace - P; Security - S; Clause - Cl A - Ar; King - K; Can - Ca LEARNERS MAY RECITE THIS MNEMONIC AS A WAY OF MEMORIZING THE FIRST 20 ELEMENTS. <u>The teacher provides the following explanation to the learners</u> Each compound has a unique name. How is a compound formed? <ul style="list-style-type: none"> - A compound is formed when TWO or more different elements combine chemically. - Each atom in a compound are held by chemical bonds - Compounds are formed during chemical reaction (when elements/ compounds combine to form new substances) - Each compound can be written as a formula, for example, H₂O; NaCl; CuSO₄ What is a formula ? <ul style="list-style-type: none"> - This is a notation that shows which elements the compound is made up of. - It indicates the total number of atoms in one unit of the compound - It indicates the ratio in which atoms of different elements are bonded to each other - It gives the total number of atoms in one unit of a compound. For example, the formula for Copper Sulphate is CuSO ₄		

Natural Science Lesson Plan Based On

**Estrada Chichón, José Luis, Zayas
Martínez, Francisco**



Natural Science Lesson Plan Based On:

How Natural Science Teachers Plan and Enact Their Lessons in Outcomes-based Education Lesedi

Magano,2009 Self-directed learning research and its impact on educational practice Elsa Mentz,Roxanne Bailey,2021-05-17 This scholarly book is the third volume in an NWU book series on self directed learning and is devoted to self directed learning research and its impact on educational practice The importance of self directed learning for learners in the 21st century to equip themselves with the necessary skills to take responsibility for their own learning for life cannot be over emphasised The target audience does not only consist of scholars in the field of self directed learning in Higher Education and the Schooling sector but includes all scholars in the field of teaching and learning in all education and training sectors The book contributes to the discourse on creating dispositions towards self directed learning among all learners and adds to the latest body of scholarship in terms of self directed learning Although from different perspectives all chapters in the book are closely linked together around self directed learning as a central theme following on the work done in Volume 1 of this series Self Directed Learning for the 21st Century Implications for Higher Education to form a rich knowledge bank of work on self directed learning **University of Nebraska-Lincoln, Catalog: ARTS & SCIENCES, COLLEGE OF.** University of Nebraska--Lincoln. College Of Arts & Sciences,1928 *Proceedings of the 2nd International Interdisciplinary Conference on Environmental Sciences and Sustainable Developments Education and Green Economy (IICESD-EGE 2022)* Femilia Zahra,Salahudin Muhidin,Norbani Che-Ha,Husnah Husnah,Mery Napitupulu,Wahyuningsih Wahyuningsih,2023-12-29 This is an open access book THE SUBJECT MATTER OF THE CONFERENCE INCLUDES THE FOLLOWING AND RELATED ISSUES Agriculture and forestry for the environment and sustainable developmentHealth for the environment and sustainable developmentEngineering science for environment and sustainable developmentEducation for the environment and sustainable developmentGreen economy entrepreneurship and good governance for sustainable development *Resources in Education* ,1997 **A Selected and Annotated Bibliography on Professional Literature in Education** California High School Teachers' Association. Committee of Fifteen, Frank Charles Touton,1924 *Handbook of Research on Training Teachers for Bilingual Education in Primary Schools* Estrada Chichón, José Luis,Zayas Martínez, Francisco,2023-02-06 Modern societies tend to demand innovative learning modalities in which foreign languages are used to teach content subjects from very early educational stages Education authorities in different geographical areas of the world are currently working to determine how bilingual teaching should be developed depending along with many other factors on the initial training of bilingual education teachers On this basis it is necessary to review how tertiary education institutions deal with the theoretical foundations and practical approaches necessary for this learning modality to train bilingual education teachers for primary schools The Handbook of Research on Training Teachers for Bilingual Education in Primary Schools includes international experiences of teacher training for bilingual education in primary schools in which

educators should be able to recognize themselves and identify concrete working formulas to apply in their daily work
Covering key topics such as teacher training language learning and primary education this reference work is ideal for
administrators teacher trainers policymakers researchers scholars practitioners academicians instructors and students

The Elements of Natural Science H. Wettstein, 1894 California Quarterly of Secondary Education , 1926

Preservice Elementary Teacher Education in Science John E. Penick, 1987 The Search for Exemplary Preservice
Elementary Science Programs was undertaken to recognize programs that modeled effective teaching behaviors and
prepared teachers for developing appropriate attitudes and skills in students This document describes the seven exemplary
programs that were recognized by the National Science Teachers Association s Search for Excellence The criteria for
excellence are listed and explained and perspectives are offered on what was learned from the search Programs reviewed
include those from 1 University of Toledo 2 Ball State University 3 University of Georgia 4 Eastern Michigan University 5
Utah State University 6 Austin Peay State University Tennessee and 7 University of Southern Mississippi ML *Report of
the Committee of Fifteen of the California High School Teachers' Association on Secondary Education in California, 1923*
California High School Teachers' Association. Committee of fifteen, 1924 Principles of Education Sidney Marsden
Fuerst, 1901 Proceedings of the Davenport Academy of Natural Sciences Davenport Academy of Natural Sciences, 1897
Journal of Education , 1883 **Reports from Commissioners** Great Britain. Parliament. House of Commons, 1875

Principles of Elementary Education and Their Application Frank Puterbaugh Bachman, 1915 *New York
Teachers' Monographs* , 1900 **Popular Educator** , 1923 *American Journal of Education and College Review* , 1876 Vol
25 is the report of the commissioner of education for 1880 v 29 report for 1877 The American Journal of Education Henry
Barnard, 1876

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