

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 CuSO₄		

Natural Science Grade 9 Scope

Jack R. Edelman



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The Science Teacher, 2000 SCC Library has 1964 cur *Resources in Education*, 1986 Rules and Regulations and Classification of Positions ... Adopted November 14, 1913 California. Civil Service Commission, 1914 **Education at a Glance 2023 Sources, Methodologies and Technical Notes** OECD, 2023-09-12 This publication provides additional reference material for Education at a Glance 2023 the authoritative source for data on the state of education around the world It provides guidance on the data and methodology used to calculate each indicator It also contains references to the sources and specific notes for each country **The Natural Classroom** Jack R. Edelman, 1996 A directory of field courses programs and expeditions in the natural sciences *Bulletin*, 1918 Bulletin of the Buffalo Society of Natural Sciences Buffalo Society of Natural Sciences, 1910 Vol 18 1938 Seventy five years a history of the Buffalo society of natural sciences 1861 1936 3 p 1 5 204 p **Recording for the Blind & Dyslexic, ... Catalog of Books**, 1996 1977 National Science Foundation Authorization United States. Congress. House. Committee on Science and Technology. Subcommittee on Science, Research, and Technology, 1976 *Science* John Michels (Journalist), 1913 **Resources in Education**, 1996 **Catalogue** University of North Dakota, 1934 *A Natural Science Program for the Intermediate Grades* Madison (Wis.). Board of Education, 1937 **A Natural Science Program for the Intermediate Grades: Grade V** Madison (Wis.). Board of Education, 1937 A Natural Science Program for the Intermediate Grades: Grade VI Madison (Wis.). Board of Education, 1937 *American Secondary Education*, 1975 **Current Index to Journals in Education**, 1997 **School Life**, 1957 *The Reality of Aid 1998-1999* Judith Randel, Tony German with Deborah Ewing, 2013-11-05 NOW IN ITS SIXTH ANNUAL EDITION The Reality of Aid has for the first time analysed the fair share of bilateral aid for basic social services basic education basic health reproductive health nutrition clean water and sanitation that should come from each donor an analysis which shows only two donors meeting their fair share and the G7 nations Canada France Germany Italy Japan UK US falling behind by over US 5 billion This year and next The Reality of Aid focuses on basic education as a right and not a privilege and its role in development cooperation and poverty elimination A key feature of The Reality of Aid 1998 1999 is the ten chapters offering analysis of development cooperation from the perspective of southern NGOs Many of these focus on basic education and raise issues around transparency gender and civil society If policies were programmes and promises were dollars The Reality of Aid could report great progress on the road to eradicating global poverty this year But at a time when donors acknowledge that ending poverty is possible it seems that commitments are being offered instead of resources and real change From the Summary Part I presents a useful Summary highlighting the steps that donors could take now to make progress towards poverty eradication and reviews the trends in development cooperation debt relief measures targeted towards the new millennium and commitment to the goal of ensuring basic education for all Part II gives a full report on the overseas aid performance of OECD country aid donors and the European Union over the last year Part III sets out a Southern

perspective on development cooperation Part IV provides at a glance comparisons of donors aid outlook and commitment to development cooperation in the 21st Century poverty eradication gender and public support Part V contains handy reference material Throughout the book information is presented in easily interpreted diagrams and graphs The Reality of Aid has established itself as a unique source of independent evaluation and comment on aid policies and development It is indispensable for all in the field whether in the official or voluntary sectors Indispensable it gives you most of the hard facts you need to know about the major issues New Internationalist The most comprehensive and rigorous independent analysis of the aid and development policies of the world s wealthiest nations Essential reading Charity World The Reality of Aid remains an essential purchase by the libraries of development institutions and an invaluable reference for development practitioners Development Change A reliable watchdog for anyone interested in this important aspect of international relations ORBIT An accessible reference it encompasses many key issues and stimulates further research Commonwealth Comparative Politics Originally published in 1998 **Membership & NSTA Publications Catalog** National Science Teachers Association,1997

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