

NATURAL SCIENCES

Gr. 9 - LESSON PLAN - MATTER & MATERIALS

TOPIC: COMPOUNDS		
Sub-topic: Names of Compounds		Duration: 1 Hour
CONTENT & CONCEPTS (CAPS p63)		
KEY CONCEPTS 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: 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: • 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: - 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? - 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 ? - 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		

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