

# NATURAL SCIENCES

## Gr. 9 - LESSON PLAN - MATTER & MATERIALS

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

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**Lei Huang**



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