

# NATURAL SCIENCES

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

TOPIC: COMPOUNDS		
Sub-topic: Names of Compounds		Duration: 1 Hour
CONTENT & CONCEPTS (CAPS p63)		
<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>		
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'	
<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> <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"> <li>- Hydrogen</li> <li>- Lithium</li> </ul> Remember the first 20 elements learnt in grade 8. How did you memorize them? Do you remember Mnemonics... <b>He</b> - H; <b>He</b> - He; <b>Lies</b> - Li; <b>Because</b> - Be; <b>Boys</b> - B; <b>Can</b> - C; <b>Not</b> - N; <b>Operate</b> - O; <b>Fireplaces</b> - F;  <b>New</b> - Ne; <b>Nation</b> - Na; <b>Might</b> - Mg; <b>Also</b> - Al; <b>Sign</b> - Si; <b>Peace</b> - P; <b>Security</b> - S; <b>Clause</b> - Cl  <b>A</b> - Ar; <b>King</b> - K; <b>Can</b> - 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 <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</b>; <b>NaCl</b>; <b>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>		

## 2question Paper Natural Science G

**Shin'ichi Satoh**



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Cloud Services ECIVECS Workshop Vision Meets Graphics VG Workshop on Active Electro Optical Sensors for Aerial and Space Imaging EO4AS and Workshop on Computer Vision and Modern Vehicles CVMV The 34 revised full papers and 2 posters presented were carefully selected from 103 submissions The papers cover the full range of state of the art research in image and video technology with topics ranging from well established areas to novel current trends     **Advanced Materials for Supercapacitors** Wen Yao Li, Min Zeng, Yuanlong Shao, Xiulin Fan, 2020-07-28 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office [frontiersin.org](mailto:frontiersin.org) about contact

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