### NATURAL SCIENCES

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

	TOPIC: COMP	OUNDS	
Sub-topic: Names of Compounds		Duration: 1 Hour	
	CONTENT & CONCEP	PTS (CAPS p63)	
KEY CONCEPTS			
<ol> <li>Chemical</li> </ol>	reaction		
<ol><li>Chemical</li></ol>	formula		
3. Names o	f compounds according to their element	ts.	
Specific Aims:	Specific Aim 1: 'Doing Science'		X
	Specific Aim 2: 'Knowing the subject of	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 Briefly review and revise concepts dealt with in Grade 8, focusing on compounds

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...

Hit - H; He - He; Lies - Li; Because - Be; Boys - B; Can - C; Not - N; Operate - O; Fireplaces - F;

New - No: Nation - No: Might - Mg; Also - Al; Sign - Si; Peace - P; Security - S; Clause - Cl

A - Ar; King - K; Can - Ca LEARNERS MAY RECITE THIS MINEMONIC AS A WAY OF MEMORIZING THE FIRST 20 ELEMENTS.

## The teacher provides the following explanation to the learners

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/ componds combine to form new substances)
- Each compound can be written as a **formula**, for example.

  H-O: NaCl: CuSO<sub>4</sub>

### 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 CuSO.

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**Peipei Pang** 

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