Fayol Inc. 0547824419

FIRST TERM WEEKLY LESSON NOTES WEEK I

Week Ending: 06-10-2023		DAY:		Subject: Science				
Duration: 100mins				Strand: Diversity Of Matter			r	
Class: B9		Class Size:		Sub Strand: Materials		ls		
Content Standard: B9.1.1.1 Show an unde chemical compounds a	nd their uses (Acid				emical Lesson:			
Performance Indicator: Learners can identify by name binary chemical compounds and discuss their uses Core Competence DL 5.3: CI 6.8: DL 5								
References: Science	Curriculum Pg. 8	7						
Key words: Compou	und, Element, Che	emical symbol, Bin	ary compound					
Phase/Duration	Learners Activit					Reso	Resources	
PHASE I: STARTER	Provide a hint or riddle for one of the compounds you will discuss today, and have learners guess what it is.							
	Example: "I season my food with this white powder, but it's not sugar. What am I?" Answer: Table Salt							
		ndicators and intro						
PHASE 2: NEW LEARNING					:i	Pictures and charts		
	Provide each gro	oup with samples	or images of the v	ar	ious materiais.			
	Ask learners to discuss and identify each material based on their prior knowledge. Once identified, provide the actual names of the compounds in each material:							
	 Water: Dihy Vinegar: According for contrast Fuel (example mixture) Soap: Sodium Detergents: can be an example of the contrast of	nle: gasoline): varion m or Potassium sa varies by deterge (ample) cium Carbonate (varies (Ammonium	e (H ₂ O) ₂) Note: not binar ous hydrocarbons alts of fatty acids N ont (Sodium dodec) CaCO ₃)	Not ylt	ote: complex te: varies by soap penzenesulfonate an be an example)			

	Now that learners know the names of the compounds, ask them to list the elements found in each. Example: Sodium Chloride (NaCl) contains Sodium (Na) and Chlorine (Cl).
	Have them write the chemical symbols next to each element's name.
	Assessment: 1. What is a compound? 2. What is the chemical symbol for Sodium? 3. Name a binary compound commonly found at home and list its elements. 4. Why is vinegar not considered a binary compound?
PHASE 3:	Use peer discussion and effective questioning to find out from learners
REFLECTION	what they have learnt during the lesson. Take feedback from learners and summarize the lesson.

Week Ending: 06-10-2	Ending: 06-10-2023		DAY:		Subject: Science		
Duration: 100mins				Strand: Diversity Of Matter			
Class: B9		Class Size:		Sub Strand: Mater	als		
Content Standard: B9.1.1.1 Show an understanding of formatichemical compounds and their uses (Acids				the formation of b	•	Lesson: 2 of 2	
Performance Indicator:			•	Core Competen			
Learners can discuss the formation of binary chemical compounds DL 5.3: CI 6.8: DL References: Science Curriculum Pg. 87						6:	
New words: Element, I	riolecule, ion, C	-ompouna					
Phase/Duration	Learners Acti	ivities			Resources		
PHASE I: STARTER	Place a water molecule, salt crystal, a piece of iron, and a battery on different corners of a table. Ask: "What do these items have in common, and how might they be different on a microscopic level?" This will set the context for the lesson. Share learning indicators and introduce the lesson.						
PHASE 2: NEW		•	: element, molecule		Pictures	and charts	
	compound. Have learners categorize a list of items (like H2O, NaCl, Fe, Ca ²⁺) under the correct headings: element, molecule, ion, or compound. Review and clarify misconceptions Explain what binary compounds are, focusing on their formation. Teach learners how to write the molecular formula of binary compounds. Write the formulas for compounds such as water, carbon (IV) oxide, iron (II) sulphide, and magnesium oxide. Using a Venn diagram or a chart, have learners compare and contrast the properties of different binary chemical compounds based on their composition. Consider properties like solubility, conductivity, melting point, etc. Engage in a discussion about why certain compounds share properties and why some are vastly different. Provide learners with modeling kits or craft materials like colored balls (for atoms) and sticks (for bonds). Assessment New the H2O, NaCl, Fe, Ca ²⁺ (ball) and compounds share properties are compounds to their formation. Assessment What is the primary difference between an element and a compound? If a substance is made up of two types of atoms bonded						

	4. Based on your models, how do the bonds in water differ from those in carbon (IV) oxide?	
PHASE 3:	Summarize the lesson by reiterating the importance of	
REFLECTION	understanding the fundamental building blocks of matter.	
	Emphasize the fascinating world of compounds and how even the tiniest differences can lead to vastly different properties. Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	