Fayol Inc. 0547824419

FIRST TERM WEEKLY LESSON NOTES WEEK 2

Duration: 100mins			DAY:		Subject: Science		
	Duration: 100mins				Strand: Diversity Of Matter		
Class: B9		Class Size:		Sub Strand: Materials			
Content Standard: B9.1.1.1 Show an understar chemical compounds and the	heir uses (Acids		Indicator: B9.1.1.1.3 Describ common acids, ba	escribe the characteristic ds, bases and salts.		Lesson:	
Performance Indicator: Learners can describe the characteristics of common acids, bases and salts Core Competer DL 5.3: CI 6.8: DL						o.6:	
References: Science Cur	riculum Pg. 88	8					
New words: Acid, Base	(or Alkali), S	alt, pH Scale, Ind	icator				
	Learners Activities				Resour	rces	
	Display three unlabeled containers: one with vinegar, one with baking soda, and one with table salt. Ask students: "Can you guess which one is an acid, which one is a base, and which one is a salt?" Share learning indicators and introduce the lesson.						
PHASE 2: NEW			•		vinega	r, baking	
						able salt	

Examples: Sodium hydroxide (NaOH), potassium hydroxide (KOH), and magnesium hydroxide ($Mg(OH)_2$). **Salts** are ionic compounds formed by the neutralization reaction between an acid and a base. They are made up of cations (from the base) and anions (from the acid) and can conduct electricity in molten or dissolved states. Examples: Sodium chloride (NaCl), potassium nitrate (KNO₃), and magnesium sulfate ($MgSO_4$). Provide each group with colored pH scale templates, markers, and a set of common substances (like orange juice, cleaning products, water, etc.). Ask them to use indicators (litmus paper or universal indicator solution) to test each substance and place them on their pH scale according to the results. Encourage groups to display and explain their pH scale models to the class. <u>Assessment</u> 1. What is the difference between an acid and a base in terms of pH value? 2. If a substance has a pH value of 7, how would you classify it? 3. Name a common indicator that can be used to test the nature of a substance. How does it show the difference between acids and bases? 4. If you have a solution that turns blue litmus paper red, how would you classify it? PHASE 3: Use peer discussion and effective questioning to find out from **REFLECTION** learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson.

Week Ending: 13-10-2	ing: 13-10-2023 DA		DAY:		Subject: Science		
Duration: 100mins		Strand: Diversity		Of Matter			
Class: B9		Class Size:		Sub Strand: Materials			
Content Standard: B9.1.1.2 Demonstrate knot formation of chemical cor		ic bonding in the	_	ize that chemical bond ttraction between atoms Lesson: 2 of 2			
Performance Indicator: Core Compete							
Learners can describe the attraction between atoms in a compound DL 5.3: CI 6.8: DI References: Science Curriculum Pg. 88						o.6:	
New words: Chemical			nt bond. Metallic bo	nd			
		, , , , , , , , , , , , , , , , , , ,	,				
Phase/Duration	Learners Act				Resources		
PHASE I: STARTER	Show students a magnet and some iron filings. Ask them: "What makes these iron filings stick to the magnet?"						
	After some discussion, segue into the concept of attraction						
	between atoms, just as there's an attraction between the magnet and iron filings						
PHASE 2: NEW	Share learning indicators and introduce the lesson. Display diagrams and models illustrating ionic, covalent, and				Diagrams showing		
LEARNING						structures of	
	different elements					nt elements	
	Discuss the main characteristics of each bond type. Engage students in a matching activity where they match the bond type to its description. Pictures and charts					es and charts	
	Using atomic structure diagrams, demonstrate how bonds form. For example, show how an atom donating an electron (like sodium) and an atom accepting an electron (like chlorine) form an ionic bond.						
	Let students use physical bond models or kits to simulate bond formations, encouraging them to explain their understanding as they do so. Display samples or pictures of various substances. Ask students to identify the type of bonding in each substance based on their learning.						
	·	•	substance that mak ivity of metals due t	_			
	in terms 2. Which ty	of electron transf pe of bond involv you think metals a	e between ionic and er or sharing? res the 'sea of electr are generally good o	ons' concept?			

	4. Name a common substance for each type of bond: ionic, covalent, and metallic.	
PHASE 3: REFLECTION	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.	