A Detailed Lesson Plan for Demonstration Teaching in Science 7

Topic: Metals and Non-metals

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A Detailed Lesson Plan
In
Grade 7 Science (Introduction to Science and Nature of Matter)

I. LEARNING COMPETENCY

- describe some properties of metals and non-metals such as luster, malleability, ductility, and conductivity **S7MT-Ij-7**

II. OBJECTIVES

At the end of 60 – minute lesson in Science 7, the students should be able:

a. Describe some properties of metals and non-metals such as luster, malleability, and ductility.
b. Construct a Venn diagram about the properties of metals and non-metals.
c. Recognize the importance and uses of metal and non-metals in our daily living.

III. SUBJECT MATTER

A. Topic

- Metal and Non-metals

B. References

- Grade 7 Science Links Learners Manual
  Lesson 6, pp. 80-81
- Grade 7 Science Links Teacher's Guide

C. Materials

- Laptop
- Manila paper
- LED TV
- Marker

D. Methodologies

- Cooperative learning, Inductive Method, Activity – Based Approach

E. Skills to Develop

- Differentiating, analysing, applying, exploring

F. Value Integration

- Recognize the essence of metals and non-metals into our daily endeavour.

IV. LEARNING ACTIVITES

TEACHER'S ACTIVITY	STUDENT'S ACTIVITY
A. PREPARATORY ACTIVITY	
1. Customary Greetings Before we'll commence our discussion, it's good to start with a prayer.	(The Lord's Prayer)
Good morning class!	Good morning sir! Good morning classmate! It is nice to see you today, may your day be holy!
Please be seated.	
2. Checking of Attendance Secretary of the class, do we have an absent today?	None sir.
Well, that's a good news to everyone. Congratulations, keep that good attendance.	Yes sir!
Review	

Now, before we will begin to a new lesson, can somebody share to the class what are things he/she had learned to my science class yesterday? Yes Alyza!	Acids and bases sir, wherein base can neutralize acid forming water or salt sir.
Very good! What else? Yes Ghuenn.	A measure of H^+ concentration in a solution is indicated by a unit called **pH** sir**.**
Precisely! It seems like you're now ready to move on for the next unit for this quarter.	
B. MOTIVATION Class, are you fond of game/s?	Yes sir!
If that is so, we'll begin our class with an interesting game, and this entitled, BRING ME!	
But before that, I will divide the class into 4 groups. Then, you'll assign a leader, a secretary and a presenter. Additionally, I made a "rule – to – follow" for today to make it sure that you're paying attention.	Rules: • Each member should cooperate and be disciplined. • Disciplined groups will receive an additional points
So, are you now ready?	Yes sir!
Bring Me…. Piece of paper Handkerchief Five-peso coin Plastic bottle Eraser Floor wax Necklace Padlock Chalk	
With all these things that you've given to me, what have you noticed with their characteristics? Yes Hiyas!	They are solids sir!
Good observation Hiyas! What else? Yes Johnson?	Some are heavy, some are light objects sir.
Exactly Johnson! Another observation? Yes Shedelyn?	Most of the things are non-metals, and the least things are metals sir!
Excellent Shedelyn! So, our discussion for today will be focusing on metals and non-metals.	
But before we'll proceed to our lesson, let us consider this essential question. Will you read Fitz?	Essential Question: How do metals and non-metals differ with

	each other?
C. ACTIVITY PROPER	
For you to understand clearly what are the characteristics of metals and non-metals, we'll have another activity, entitled "DESCRIBE ME ACCORDING TO MY LOOKS"	
Here's the mechanics for this activity. Please read John Rey!	MECHANICS: • Stay put on your group. Each group will be given an envelope together with the materials. • Look around and be a keen observer! Write down all the characteristics of metals and non-metals on the Manila paper. The more, the merrier! • Each correct item is equivalent to 1 point. • You only have 10 minutes to finish the activity. Don't forget to tack on the board when you're finish. • After the activity, one representative of each group will present in front
Thank you Jericho! Additionally, while you are doing your activity, you must have a meaningful collaboration with your group mates because I'll ask you randomly. Understood?	Yes sir!
Do you have any question regarding on this activity?	None sir!
So the timer starts now!	(the activity will now commence)
Since all your works were now tacked on the board, let's welcome the first presenter from group 1.	
Congratulations to all of you! Each group will receive points that are tantamount/equivalent to their correct answers.	
D. ANALYSIS	
Based from your activity you did, what are the common properties of metals? Yes Jovelyn?	Good conductor of heat and electricity sir.
Very good Jovelyn! What else, John Dave?	Lustrous or exhibit shine sir.
Precisely John Dave! Do we have some more, Jheson?	Malleable and ductile sir.
Superb Jheson! What else, C-jay?	High tensile strength and melting points sir.
Excellent C-jay! Another Joenard?	High densities sir.
Good answer Joenard. It seems like you've given already all the properties of metals. How about the properties of metals? Anyone? Yes Jackelyn!	Brittle and easily breaks sir

Very good Jackelyn! What else, Gaudelyn? Amazing answer Gaudelyn! Another Precious Joy? Excellent Precious! Do we have some more, Jolina? Definitely Jolina! Congratulations again to everyone because you've answered all the questions given to you! Keep that good performance in our class.	Low tensile strength and melting points sir. Do not exhibit luster sir. Insulators sir.
E. APPLICATION Now, we will now have our last activity – a group activity. Please read directions John Ceazar? Thank you John Ceazar! So, right after 10 minutes, you will now perform it in front by group.	You are going to compose a YELL by thinking all the properties and uses of metals and non-metals. You only have 10 minutes to finish the activity. Good luck and God bless! (students will now perform the said activity)
F. GENERALIZATION Based on the properties of metals and non-metals, what do you think are the uses and advantages in our daily living? Well said Jhaslyn! What else Romalyn? Very Good Romalyn! We all know that metals are the complete opposite of non-metals. How would you relate it now to your life? Yes Alyza? What a beautiful answer you've shared to us Alyza!	Metal objects can be used as wire, utensils, equipment, and etc. sir. Non-metals can be used as pot holder, insulator to electricity, and etc. sir. Since we are talking about "opposite" sir, for me, it relates so much into my life wherein lots of negativity surround you which will squeeze you, stress you but amidst of that there are still plenty of positivity which will lift you up and cope with all the trials.
G. EVALUATION For your last activity, please READ!	You are going to make a Venn diagram about the properties of metals and non-metals. Do it in ½ crosswise. You only have 5 minutes to finish the activity.
H. AGREEMENT For your assignment, please READ! Are you done? So let us call it a day, GOODBYE CLASS!	In the next activity, you will separately burn a sample of a metal and a nonmetal. You will test the acidity of the oxide of a metal and that of the oxide of a nonmetal. Yes sir! Good bye sir! Thank you and God bless us and may your day be Holy!