Section : Sampaguita
Everlasting
Hyacinth

Date:

Lesson Plan in Science

Grade 8

I. Objectives:

1. **Content Standard:**
   - Demonstrate an understanding of the concept of a species
   - Demonstrate an understanding of the species as being classified into a hierarchical taxonomic system

2. **Performance standard:**
   - Report on the activities that communities engage in to protect and conserve endangered and economically important species.

3. **Learning Competencies/Objectives:**
   - Explain the concept of a species. **(S8LT-IVg-19)**
   - Classify organism using the hierarchical taxonomic system.

     (S8LT-IVg-20)

     Explain the advantage of high biodiversity in maintaining the stability of an ecosystem. **(S8LT-IVg-21)**

4. **Specific objectives:** The learners will be able to…
   - Identify the characteristics of the two kingdoms.
   - Differentiate the 2 kingdoms using a venn diagram.

II. Subject Matter

1. Topic : Biodiversity (Archaebacteria and Eubacteria)
2. Reference : Learner's Module page 226-227
3. Materials: Manila Paper, Visual aid, pentel pen, scotchtape

III. Learning Task

1. Review

- What are the 3 domains?
- How do the domain Eukarya differ from domain Archae?
- Does domain Archae is similar from Domain Bacteria? Why?

2. Motivation

- Activity: "Charades"
  - The class will be divided into 5 groups.
  - Each group must have a one representative.
  - The representative will pick a word and let the remaining members guess the word by acting it in front of the class.
  - Each group who will be given 2 minutes.

Salty	**bacteria**	**Microscopic**	
Acidic	**disease**	**spiral**	**heterotrophs**
Hot	**environment**	**Autotrophs**	**temperature**

3. Lesson Proper

3.1 **Activity** " Describe Me Please "

- The class will be divided into 5 groups.
- The teacher will ask the students that "Upon hearing the word bacteria what came up to your mind? How will you going to describe it using your previous knowledge about it?"
- The students will be given 5-10 minutes to do it.

3.2 Analysis

- Discuss what are the 2 kingdoms under domain prokarya
- Describe the characteristics of the two kingdoms.
- Discuss how the two differ from each other and its similarities.
- Present examples of organism for each kingdom.

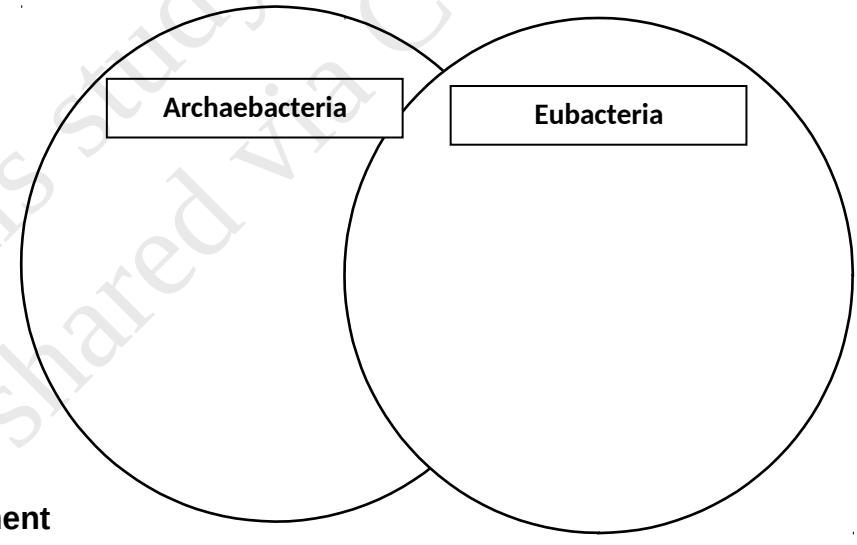
3.3 Abstraction

The teacher will ask the following question to the students:

- What are the 3 domains?
- How do the domain Eukarya differ from domain Archae?
- Does domain Archae is similar from Domain Bacteria? Why?

3.4 Application

Using the data they have make a Venn Diagram about Archaebacteria and Eubacteria.



IV. Assessment

¼ sheet of paper

Direction: Tell whether if the given characteristic describes an **Archaebacteria** or **Eubacteria.**

1. Live on severe environment.

2. Methanogens belong to this kingdom
3. Some live on volcanic hot spring.
4. Some are pathogenic
5. They have varied shapes like rod,spiral and spheres
6. E.coli belong to this kingdom
7. Helobacterium salinarum is under this kingdom
8. Can survive to places with no oxygen
9. Can be beneficial to humans.
10. The earliest form of bacteria.

V. Assignment

Advance study the Kingdom Protista.

VI. Reflection

A. No. of learners who earned 80% on the formative assessment	
B. No. of learners who require additional activities for remediation.	
C. Did the remedial work? No. of learners who have caught up with the lesson.	
D. No. of learners who continue to require remediation.	
E. Which of my teaching strategies work well?	
F. What difficulties did I encounter which my principal or supervisor can help me solve?	
G. What innovation or localized materials did I use/ discover which I wish to share with other teachers.	