

**LESSON PLAN IN SCIENCE  
GRADE 8**

**CONTENT STANDARDS:** The learners demonstrate an understanding of the

1. concept of a species.
2. The species as being further classified into a hierarchical taxonomic system.

**PERFORMANCE STANDARDS:** The learners should be able to report on activities that communities engage in to protect and conserve endangered and economically important species.

**LEARNING COMPETENCY/COMPETENCIES:**

1. Classify the concept of a species.
2. Classifies organisms using hierarchical taxonomic system.
3. Explain the advantage of high biodiversity in maintaining the stability of an ecosystem.

**I. OBJECTIVES**

At the end of the session, the students are expected to:

1. Define and describe domain archaea / kingdom archaebacteria.
2. Cite the importance of domain archae a in daily life.
3. Identify the different groups of archaebacteria through words and pictures.

**II. CONTENT**

Topic – BIODIVERSITY

Subtopic: Domain Archaea: Kingdom Archaeobacteria

**III. LEARNING RESOURCES**

References

Code: **S8LT-IV-g-19**

Teachers’ Guide pp.

Learner’s Module pp. 223-228

**IV. PROCEDURES**

**A. Routinary Activities**

1. Putting class in order.
2. Opening Prayer
3. Greetings
4. Checking of Attendance

**B. Elicit**

Table 1. Sample classification of organisms

Category	Domesticated Cat	Dog	Bangus	Wolf	Lion
Kingdom	Animalia	Animalia	Animalia	Animalia	Animalia
Phylum	Chordata	Chordata	Chordata	Chordata	Chordata
Class	Mammalia	Mammalia	Actinopterygii	Mammalia	Mammalia
Order	Carnivora	Carnivora	Gonorynchiformis	Carnivora	Carnivora
Family	Felidae	Canidae	Chanidae	Canidae	Felidae
Genus	Felis	Canis	Chanos	Canis	Panthera
Species	<i>Felis catus</i>	<i>Canis familiaris</i>	<i>Chanos chanos</i>	<i>Canis lupus</i>	<i>Panthera leo</i>

Using the table, students will be asked the following questions:

1. Which organisms in table 1 are similar up to the Order category?
2. Which organisms are most closely related? Why do you say so?
3. Can a dog and a wolf produce a fertile offspring? Explain your answer.

**C. Engage**

The class will be divided into three groups. They will be given a set of pictures and words. They are going to match it. After 5 minutes they will post and present their answers in front.

**D. Explore**

The students will watch a video about Domain Archaea / Kingdom Archaeobacteria.

**E. Explain**

Guide Questions:

1. What is kingdom archaeobacteria?
2. What kind of organisms belongs to this kingdom?
3. Give some organisms under this kingdom based on the video you watched.

**F. Elaborate**

What do you think is the importance of the organisms under kingdom archaeobacteria to other organism and to our daily life?

**G. Evaluate**

Directions: Identify the different organisms being described.

1. These organisms inhabit digestive tract of animals and ponds where animal, human and domestic wastes were treated.
2. The Dead sea is inhabited with what kind of archaeobacteria?
3. This group of archaeobacteria can live in places with very high temperature like volcanoes and deep sea vents.
4. These archaeobacteria can survive in a very cold place.
5. This group of archaeobacteria love acidic places.

**H. Extend**

Directions: Answer the following questions in your notebook.

1. What is domain bacteria?
2. List some organisms found in kingdom eubacteria.

**V. REMARKS**

## VI. REFLECTIONS

Prepared by:

HANNA ELISE G. DE GUZMAN, LPT  
Teacher I

Noted by:

RAMIR D. ROMASANTA, LPT  
Head Teacher III / Teacher-in-Charge

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