

**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 bacteria/ kingdom eubacteria.
2. Give the harmful and beneficial effects of bacteria to humans and other organisms.
3. Describe the basic shapes of bacteria.

II. CONTENT

Topic – BIODIVERSITY

Subtopic: Domain Bacteria: Kingdom Eubacteria

III. LEARNING RESOURCES

References

Code: **S8LT-IV-h-20**

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

The teacher will randomly select students to be given the following.

THERMOACIDOPHILES

found in very hot and sulphuric environments.

Lives in volcanoes and mud around volcanoes

METHANOGENS

Can be found in digestive tracts of humans and some animals

lives in sewage, bottoms of lakes and swamps and rice fields

HALOPHILES

the presence of yellow/orange color in salt making places indicates its presence
can be found in Dead Sea and Great Salt Lake of Utah
lived in extremely salty environments

C. Engage

The class will be divided into three groups. They will be given a set of bacterial images and match it with its corresponding shape.

D. Explore

The students will watch a video about Domain Bacteria: Kingdom Eubacteria

E. Explain

Guide Questions:

1. What is kingdom eubacteria?
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 are the harmful and beneficial effects of bacteria to humans? Kindly give examples based on your daily life.

Example: drinking of Yakult – it contains lactobacillus which is a good bacteria that helps in digestion

G. Evaluate

Directions: Identify whether the following statements are true or false.

1. The cell wall of bacteria is made up of peptidoglycan.
2. Bacteria are used in industries for making products such as yogurt and cheese.
3. Some diseases are caused by bacteria such as anthrax and leptospirosis.
4. Bacteria are the least abundant prokaryotes.
5. When oil glands swell and result to pimples, it is infected with *Propionibacterium acnes*.

H. Extend

Directions: Answer the following questions in your notebook.

1. What is domain eukarya?
2. List the kingdoms under domain eukarya.
3. Give atleast five organisms under each kingdom in the domain eukarya.

V. REMARKS

VI. REFLECTIONS

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