**EMERALD ROYAL INTERNATIONAL SCHOOL, MPAPE ABUJA**

**LESSON PLAN AND NOTE FOR WEEK 2 ENDING 22ND SEPTEMBER, 2023**

**TERM: FIRST**

**WEEK**: **1**

**DATE** : **18TH - 22ND SEPTEMBER, 2023.**

**SUBJECT:** **BIOLOGY**

**CLASS : SS 1**

**TOPIC :**  **CLASSIFICATION OF LIVING THINGS**

**SUB - TOPIC: 1**. **kingdom Protista.**

1. **Characteristics of kingdom protista.**
2. **Examples of kingdom protista.**

**PERIOD : 7th**

**TIME : 12: 30 - 1:00**

**DURATION : 40 minutes**

**AVERAGE AGE : 15 years**

**SEX:** **mixed**

**LEARNING OBJECTIVES:** by the end of the lesson,the students, should be able to;

1. State the phyla in kingdom protista.
2. State their characteristics.
3. Give examples of each phyla.

**RATIONALE:** the students should understand the characteristics and examples of kingdom protista.

**PREVIOUS KNOWLEDGE:** The students have been taught kingdom Monera.

**INSTRUCTIONAL MATERIALS:** chart showing the phyla in kingdom protista.

**Reference Material:** Essential Biology for Senior Secondary School by M.C. Michael.

**LESSON DEVELOPMENT**

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| **STAGES** | **TEACHER’S ACTIVITIES** | **STUDENTS’**  **ACTIVITIES** | **LEARNING POINT** |
| **INTRODUCTION** | The teacher introduces the lesson by reviewing the previous lesson. | The students were attentive. | To arouse the students interest. |
| **PRESENTATION**  **STEP 1** | The teacher states the phyla in kingdom protista. | The students pay attention. | To keep them focus. |
| **STEP 2** | The teacher asks the students to state the characteristics of kingdom protista. | The students state the characteristics of kingdom protista. | To encourage critical thinking. |
| **STEP 3** | The teacher states the examples of kingdom protista. | The students were active. | To keep them focus. |
| **BOARD SUMMARY** | **Kingdom: Protista** **Characteristics** i. They are unicellar organisms ii. The organisms are all eukaryotic iii. They move either by cilia, flagella or may be amoeboid by nature iv. Some of the Protista are heterotrophic while some are both heterotrophic and photosynthetic. v. Mode of reproduction is usually asexual by mitosis while some have sexual reproduction by fusion of gametes. There are four phyla in this kingdom. They are; (**a) Euglenophyta** **(b) Protozoa** **(c) Chrysophyta** **(d) Pyrrophyta** Protozoa and Euglenophyta can be used as representative of this group.  **Characteristics Of Protozoa** i. They belong to the group of organisms called protista ii. They are microscopic organisms. iii. They have eukaryotic cells, i.e cells with membrane. iv. They reproduce asexually by binary fission v. They are mainly aquatic organisms while few are parasitic vi. The organisms in this group move by different organelles e.g Amoeba move by Pseudopodia, Paramecium move by cilia. vii. Examples of Protozoa include Amoeba, Paramecium, Trypanosome, Plasmodium etc. *****Draw the diagram of paramecium from your textbook.***** ***Draw the diagram Of Amoeba from your textbook*** ***Draw the diagram of Trypamosome from your textbook*** ****Characteristics of Euglenophyta****  Euglena viridis is a Protista and a typical example of an organism sharing both the characteristics of plants and animals. However, it is a microscopic, unicellar and aquatic organism.  ***Draw the diagram Of Euglena***  **Animal Characteristics of Euglena** The characteristics of Euglena which makes it an animal include: i. Possession of flagellium used for movement ii. Possession of gullet for passage of food iii. Possession of contractile vacuole used for osmoregulation and Excretion iv. Presence of eye spot which enables it to detect light intensity. v. Possession of pellicle which makes its body flexible or give body definite shape. vi. Presence of myonemes which do aid movement.  **Plant characteristics of Euglena**  The characteristics of Euglena which make it a plant include: i. Possession of chloroplast which enables it to carry out photosynthesis ii. Possession of pyrenoids where starch is stored. iii. Presence of paramylum granules – forms in which starch is stored. iv. It has holophytic (autotrophic) mode of nutrition. | The students ask questions for further clarification. | To create room for slow learners. |
| **Evaluation** | The teacher evaluates the students with the following questions:   1. State the phyla in kingdom protista. 2. State their characteristics. 3. State at least 2 examples in each phyla. | The students attempt the questions. | To ascertain their level of understanding. |
| **Conclusion** | The teacher concludes by coping the note on the board. She checks and marks the note. | The students copy the note on the board. | For future use. |
| **Assignment** | Draw a well labeled Euglena. | The students did and submit their assignment for marking and correction. | To encourage the students to study at home. |

**22nd September, 2023**

**DEPUTY HEAD INSTRUCTOR ADMIN**

**NB: Approved!**