**EMERALD ROYAL INTERNATIONAL SCHOOL, MPAPE ABUJA**

**LESSON PLAN AND NOTE FOR WEEK 1 ENDING FRIDAY, 12th JANUARY, 2024**

**TERM: SECOND TERM**

**WEEK: WEEK 1**

**DATE : 9TH - 13TH JANUARY 2023**

**SUBJECT: BIOLOGY**

**TOPIC: TISSUE AND SUPPORTING SYSTEM**

**SUB - TOPIC: 1. Definition**

1. **Types of skeleton**
2. **Functions of supporting tissues in plant and animals**

**PERIOD : 7th**

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

**DURATION : 40 minutes**

**CLASS : 8**

**NUMBER IN CLASS : 8**

**AVERAGE AGE : 14 years**

**SEX: mixed**

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

1. differences between a bone and a cartilage.

2. State the functions of skeleton

**RATIONALE:** Toenable the students should understand the types and and functions of the skeleton.

**PREVIOUS KNOWLEDGE:** The students can identify a mammalian skeleton.

**INSTRUCTIONAL MATERIALS:** mammalian skeleton

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

**LESSON DEVELOPMENT**

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| **STAGES** | **TEACHER’S ACTIVITIES** | **STUDENT’S ACTIVITIES** | **LEARNING POINT** |
| **INTRODUCTION** | The teacher introduces the lesson by displaying the mammalian skeleton and asking the students to identify some parts of the skeleton. | The students identify some parts of the mammalian skeleton. | To arouse the students interest. |
| **PRESENTATION**  **STEP 1** | The teacher states the differences between bone and cartilages. | The students pay attention. | To keep them focus. |
| **STEP 2** | The teacher asks the students to list the functions of skeleton. | The students list the functions of the skeleton. | To encourage critical thinking |
| STEP 3 | The teacher states the functions of mammalian skeleton. | The students were active and participate. | To encourage retention ability. |
| **BOARD SUMMARY** | **TISSUE AND SUPPORTING SYSTEM.**  **Differences Between Bones And Cartilage.**  1 Bones produce red and white blood cells while  Cartilages do not.  2. Bone is Made up of both living cells and dead cells Whereas cartilage is made up of mainly living cells.  3. Bones are often rigid meanwhile Cartilage are often flexible.  4. Bones are made up mainly of mineral substance such as calcium but in cartilage, mineral substance are absent.  5 Bones Can never be replaced by cartilage but cartilage Can be replaced by bones.  6. Bones are flexible only in young ones while cartilages are flexible in both young ones and adult.  **FUNCTIONS OF SKELETON**   1. **Support** - The rigid frame work of the skeleton gives support to the body. The vertebral column or back bone forms the pillar like structure to which the girdle and ribs are attached. 2. **Shape** - Skeleton also provide shape to the body. It enables organisms to be easily recognised by the shape given by the skeleton. 3. **Protection** - The skeleton provide protection to important and delicate organs of the body. It houses the complicated structures of the of the inner ear and the eyeball. 4. **Movement** - The whole skeleton is made up of several piece of bones which are joined and brings about movement. 5. **Storage of mineral salts -** The skeleton stores important mineral salts such as calcium and phosphate hence bones are sources of food and minerals.   skeleton | The students ask questions for further clarification | To create room for slow learners. |
| **Evaluation** | The teacher evaluates the students with the following questions:   1. list at least 5 functions of skeleton. 2. Explain any 3 listed in 1 above. | 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** | 1. Draw a well labeled mammalian skeleton. 2. Write 3 differences between bone and cartilage. | The students did and submit their assignment for marking and correction. | To encourage the students to study at home. |



12th January, 2024

Deputy Head Instructor Admin

APPROVED!