

## The Skeleton

Digital tools utilized	Technical/digital skills to be possessed by the teachers
<ul style="list-style-type: none"> <li>- Digital tools utilized</li> <li>- Computer with Internet access</li> <li>- Padlet/kahoot</li> <li>- Digital Biology text book</li> <li>- <a href="https://www.britannica.com/science/human-skeleton">https://www.britannica.com/science/human-skeleton</a></li> </ul>	<p>How to use a LMS and send materials to students</p> <p>How to use padlet, kahoot</p> <p>How to make a video/ a ppt presentation</p>

### Difficulty analysed

Student engagement in the lesson: a game of Kahoot! can engage every student and make a noticeable learning impact.

### Objectives

- Identify and observe the composition and functions of the organs of the human body.
- Study the human body and identify the main components of the skeleton
- Present the structure and functions of biological systems based on models
- Correctly use the biology-specific terminology in different communication situations

### Description of the Lesson Plan

Encourage students to create a kahoot on their section (within their group) for their peers. To make the kahoot more inclusive students can use the material they previously created. They can extend the timer to at least 90 seconds or include pictures as much as possible to help them remember the information or find it in their notes.

I. Before the lesson: divide the topic - the human skeleton - into 3 sub-topics:

1. The skeleton of the head
2. The skeleton of the trunk
3. The skeleton of the limbs

II. Create expert worksheets for each of the three subtopics, each with concrete learning tasks and with the main elements that the student must identify and complete in order to create the lesson outline.

EXPERT SHEET NO.1

Subtopic: the skeleton of the head

Work tasks

- Read the text in the textbook carefully
- Make a diagram showing the structure of the skeleton of the head:

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- What is the skeleton of the head made of?
- What bones make up the skull?
- What are the main bones of the face?

Students can use the Digital Biology text book/ give links to information

#### EXPERT SHEET NO.2

Subtopic: the trunk skeleton

Work tasks

- Read the text in the textbook carefully
- Make a diagram showing the structure of the trunk skeleton:
  - What is the trunk skeleton made up of?
  - What are the regions of the spine called?
  - How many pairs of ribs are there?

Students can use the Digital Biology text book/ give links to information

#### EXPERT SHEET NO.3

Subtopic: the bones of the human appendicular skeleton (the bones of the upper limbs, the lower limbs, the pectoral girdle, and the pelvic girdle)

Work tasks

- Read the text in the textbook carefully
- Make a diagram showing the structure of the upper limbs:
  - What bones make up the scapular girdle?
  - What bones make up the upper limbs?
- Make a diagram showing the structure of the lower limbs:
  - What bones make up the pelvic girdle?
  - What bones make up the lower limbs?

Students can use the Digital Biology text book/ give links to information

III. Divide students into groups of 3 or 4 students; each student in the team receives a number from 1 to 3 and has to study the sub-topic corresponding to his/her number. All three subtopics are discussed within each group.

Set students into three groups corresponding to the three experts. Ask them to discuss and complete the sheet on a padlet and present it to the class.

IV. Encourage students to create a kahoot on their section (within their group) for their peers. To make the kahoot more inclusive students can use the material they previously created. You can extend the timer to at least 90 seconds or include pictures as much as possible to help students remember the information or find it in their notes. Students ask each other questions about the lesson by using the kahoot they created.