The Human Skeletal System

WebQuest Description: The human skeleton consists of both fused and individual bones supported and supplemented by ligaments, tendons, muscles and cartilage. It serves as a scaffold which supports organs, anchors muscles, and protects organs such as the brain, lungs and heart.

Grade Level: 9-12
Curriculum: Health / PE
Keywords: Bones, Ligaments, Joints, Cartilage, muscles, Brain, Lungs and Heart.
Published On: 2011-06-29 23:58:05
Last Modified: 2011-02-22 09:46:39

INTRODUCTION: Today we are going to begin talking about the skeletal system. We are going to focus on the Parts and functions of the skeletal system. Teacher will use the traditional folk song, “Dem Bones”, to introduce the lesson. This song gets the idea across that our body is connected and each part has its own name. I want you to think why your bones are an important part of your body.

Tasks

At the end of the learning activities students should be able to: Label and identify various bones in the human body. Explain functions of the bones in the human. Predict what the skeletal system of the human body looks like. Compare and contrast the different bones in the human body and their functions. Match bones with their functions. Write complete sentences. Construct accurate models of the skeletal system. Discuss bones in the body. The students will write a thank you note to the skeletal system in which they will describe the functions of the skeletal system. The students will perform a bone tour in which various bones in the body will be identified and described. The students will create a model of the skeletal system using.

Process

Students will be asked to "feel" the bones in their bodies and draw what they think the skeletal system looks like. Students will be asked to compare and discuss their drawings. The students will be asked to pantomime what they think they would look like if there were no bones in their body. Skin Tents: In groups, the students will be asked to say what would happen if they are given the task to make a tent from the bedsheet. All group members must fit underneath the "tent." At first, no other materials besides the blanket may assist the group. After a couple of tries, the groups are allowed to use support items such as chart stands, chairs, tables, etc. The teacher leads a discussion and makes a list of why humans have bones (to hold us up and protect our insides). Relate this to the supports needed to make the tent. Students will watch a videopresentation on the parts and functions of the skeletal system. The students will be asked to write a thank you note to their skeletal systems in which the purposes of the skeletal system must be described. Each student will be asked to pick a "bone" out of a bag. The student places the bone on an outline of the skeletal system. As students are placing the bones on the body, the class discusses what bone they think it is and compare/contrast the bones throughout the activity. Students will be asked to do a Bone worksheet—discuss the names and functions of the different bones. In groups, the students are given a moveable skeleton. The groups practice being tour guides and giving tours through the skeletal system. As groups are giving their tours, they must name and discuss the bones in the skeletal system. After the groups have practiced their tours, they perform them for the class. (Model a tour before the groups start practicing.) Make a skeleton out of macaroni and spaghetti noodles. The students must label at least ten "bones". (Show the students an example before they create their own skeletons)

Evaluation

Label the parts of the skeletal as you see them on the image.
Conclusion

It is the publisher's intention to ensure that persons that actually took a quest be well enlightened about the skeletal system. It is a well put together work of art that seeks to put closure and redress to individual's interest as they make their journey in the field of science thus making them more competent.

Teacher Page

WebQuest is indeed a journey. Though it is very technical to create, you will have no regrets as your students will enjoy the quest. Since they will have a fascinating video to watch as well as loads of information about the human skeleton. Remember setting up a WebQuest will help you as well as others to learn while taking a journey on the web.

Standards

Credits

Other