

OBJECTIVE

Students will use Organon3D to locate and identify the pectoral girdle, upper limbs, pelvic girdle, and lower limbs.

MATERIALS

- Oculus Rift
- xBox controller
- Copies of the “Appendicular Skeleton” document
- Book/Chromebook

SYNOPSIS

Organon3D is a VR experience that is focused on identifying and locating anatomical features. It is a highly detailed program that offers the ability to hide muscles, connective tissue, cartilage, or bones to provide a better view of individual features.

The purpose is meant as an introduction to the unit on the appendicular skeleton. During the activity, students will explore, locate, identify, and describe bone structures associated with this part of the body.

TIMELINE

This activity is designed to take be completed in 2-45 minute sessions.

OPTIONAL REINFORCEMENT ACTIVITIES

We will also provide the following materials:

- A Quizlet with the anatomical terms featured in this experience. This can be shared to assist students with the acquisition of knowledge of the appendicular skeleton.

Before Day 1

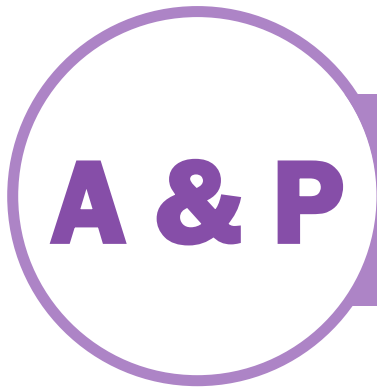
- Make copies of the “Appendicular Skeleton” packet.
- Pair students. Grouping them with someone they will work with is helpful.

Days 1-2

- Introduction to the activity is given by the instructor
 - Cover the main objectives.
 - Encourage students to not “let their partner off easy”. Have them make sure their partner has correctly identified and described the material before checking off on it.
 - Emphasize the need for communication between the person in the headset and the person outside the headset.
- Once both partners have completed the activity, if time permits, have them go back and mix up the order of items they need to find and identify.

Day 3

- Complete the feedback survey in Google Forms.



TIMELINE

SUGGESTED SEQUENCE

STANDARDS

Anatomy (9-12)

- **Skeletal System**
 - Identify the various vertebrae and explain their differences
 - Identify the subdivisions of the skeleton
 - Identify the bones in the body and name them on a diagram or model
 - Identify the functions of the skeletal system