



COLORADO ANATOMY IN CLAY® COMPETITION 2023 (Team Event)

Purpose: To encourage Health Science students and showcase their knowledge of Anatomy.

Description of Event: This event involves a team of two to three students identifying: directional terms, bone marking and identification, body system and muscle form and function, using the ANATOMY IN CLAY® Learning System and a MANIKEN® models.

This is a Colorado event only, there is not currently a competition at the national level.

- Rules and Procedures:**
1. Competitors in this event must be active members of HOSA in good standing in the category in which they are registered to compete (Secondary or Postsecondary/Collegiate).
 2. Each team will be assigned a time slot to begin competition. All teams will have one hour total to identify directional terms, body systems and build muscle (form and function) on an ANATOMY IN CLAY® Learning System MANIKEN® model.
 3. Teams will have to build 3-4 muscles on a MANIKEN® model. Experience with ANATOMY IN CLAY® Learning System is not required but may be helpful.
 4. Students will be expected to know directional terms, bones, bone markings, muscle origins, insertions, actions (*see the study guide on page three*) and be able to build and correctly place 3-4 muscles complete with striations onto a MANIKEN® model.
 - a. Models will be put on display after judging
 5. Competitors must be familiar with and adhere to the **“General Rules and Regulations of the National HOSA Competitive Events Program.”**

Required Personnel:

1. One coordinator
2. Five event assistants
3. One to two judges

For more information about the ANATOMY IN CLAY® Learning System and the MANIKEN® model, visit: www.anatomyinclay.com or call 970-667-9047

Facilities, Equipment and Materials:

1. Conference room.
2. Tables for MANIKEN® models
3. Pencils (***)
4. Clipboards for each competing team
5. Anatomy in Clay® MANIKEN® models
6. Labels/pins
7. Terra cotta and colored clay
8. Cutting Board
9. Basic Tool sets plus Rollers and Scrapers
10. Paper Towels and wet towels

ANATOMY IN CLAY® COMPETITION

Study Guide

Material that students could be tested on will cover the following:

Anatomical Terms & Skeletal System - (directional terminology): proximal/distal, superior/inferior, anterior/posterior, and lateral/medial, dorsal/ventral.

Cardiovascular System: Students will be tested on the anatomy and physiology of the Cardiovascular System

- Structures and functions, blood flow
- Common disorders and treatments

Muscles: *Students will be tested on 3-4 different muscles from the following list. They will first need to mark the correct origin and insertion. Students will then need to correctly build the muscle, make the striations and give a function/action for the given muscle. Extra points will be awarded for high-quality builds.*

Muscles chosen from:

- **Gluteal/ Posterior Thigh:** Gluteus Maximus, Gluteus Medius, Adductor longus, Gracilis
- **Back:** Lattismus Dorsi, Trapezius, Rhomboid Major, Rhomboid Minor