

NO BONES ABOUT IT

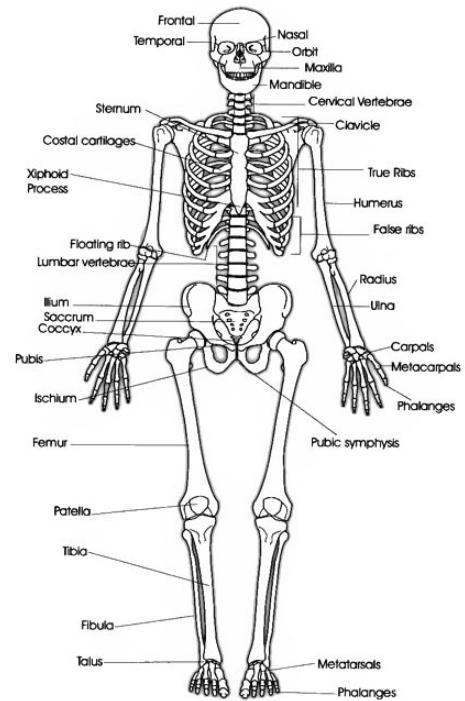
Description:

A team of two students will identify bones and pictures of bones at stations throughout the room. They will also be required to answer specific questions found at the stations pertaining to bones. Only **SCIENTIFIC NAMES** of the bones will be accepted as correct. Spelling of the scientific names will be used as a tie-breaker.

Competition:

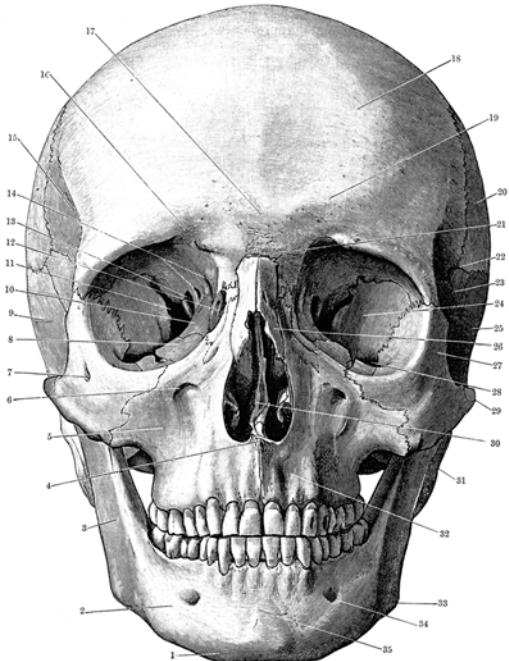
Stations will be set up in a science laboratory fashion. Stations may have actual or simulated human bones, either alone (disarticulated) or together in a group of bones. Students will answer a series of questions at each station **WITH A TIME LIMIT** (anywhere from 1-3 minutes per station- time limits will be announced by the testing official on the day of the event), and will move from station to station around the room. *Do not expect time to go back and look at previous stations*, although there may be a little bit of time at the end of the session to go back.

Each team will record their answers on a team answer sheet, and will turn in this answer sheet to the testing official before leaving the room at the end of the session. Only answers written clearly on the answer sheet will be scored. Ties will be broken using the number of CORRECTLY spelled scientific names.



Types of Questions:

The questions at each station may be simple identification of the bones or diagram provided, or may include additional information- such as the location of the bone within the human body, the side of the body it appears on (for example: "left femur"), the function of the bone/joint, etc. Other questions may include orientation, articulation, number of this type of bone in the human body, function, type of joint, range of motion, etc. Diseases and disorders of the skeletal system may be included in questions for this event. Remember that teeth are considered a part of the skeletal system. Students should also know how the bones change and develop over a lifetime, from before birth until old age.



Scoring:

Overall placement will be determined by the number of correct answers given. In the event of a tie, the team with the most answers spelled correctly will be placed higher than the team with fewer answers spelled correctly. Because of the complexity of the spelling skills required for this event, it is very important that the team records their answers CLEARLY on the answer sheet.

A team may be *disqualified* if they in ANY WAY change the labeling of the bones at the stations, or alter the questions posted at each station. This includes moving pins/labels, writing on the station questions, or disturbing the display for teams that follow. Students should be encouraged to LOOK, but not TOUCH the bones unless instructed to do so by the station instructions. (Classic example is a “bone in a bag” station- the event supervisor may place a bone inside of a cloth bag and tie it shut. The team could be asked to identify the bone based upon what they can feel through the cloth, and even which side of the body that bone occurs on! For example, “left humerus.” However, untying the bag and looking inside would be grounds for disqualification.)

How to Prepare:

Be sure to read the rules through carefully and often! Knowing the rules will keep you from losing on a technicality.

Online Study Tools: Parents and/or teachers should preview any online study sites to be sure the material is age-appropriate. Try searching for “Skeletal System,” and you’ll find a lot of great sites that even have online quizzes!

Textbooks: Check out a book from the library or borrow one from an older student. Chapters about the Skeletal System will include information about the types of joints, range of motion of different body parts, the function of the parts of the bone such as the bone marrow, and information about how bone tissue is made and what it is made of. It will be important to go beyond memorizing a diagram of bones and their locations!

Practice, Play, Practice: Play matching games with flash cards, make up songs to remember the order of the bones from your shoulder to your fingertip, pick 10 bones and memorize how to spell them by writing each word 10 times. (Old-fashioned, but it works!)

Places to Start: (THIS IS NOT AN EXHAUSTIVE LIST OF THINGS TO STUDY!!!)

<http://hes.ucfsd.org/gclavpo/skelweb/skel01.html>

http://www.abcyo.com/skeletal_system.htm

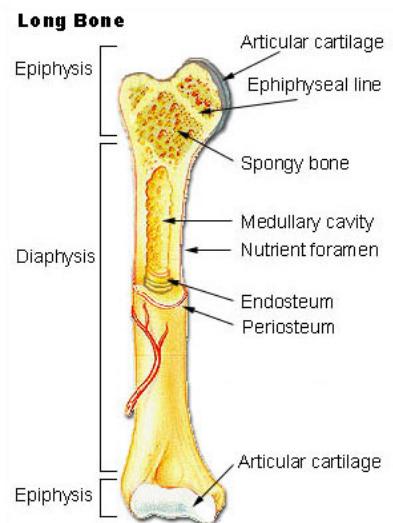
<http://www.neok12.com/Skeletal-System.htm>

<http://biology.clc.uc.edu/courses/bio105/bone.htm>

<http://www.livescience.com/22537-skeletal-system.html>

Special Considerations:

If one of your team members has specific special needs, please inform the event supervisor at least a week in advance. Most special needs can be accommodated quite easily with advance notice. (*One example of a special need would be if a team member is color blind- some stations may have questions that refer to the color of a specific bone on a diagram, for instance.*)



2014 Event Supervisor Contact Information:

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