

Overview of Lesson Students will explore the different overlapping and intertwined “layers” of human anatomy within this lesson based off of the Games+Learning+Society video game *Anatomy Browser*.

Materials Needed White paper (cut into quarters) 2x number of students
Parchment paper (cut to the same size as the white paper pieces) 4x # of students
Markers (permanent markers work best parchment paper)
Pens
Anatomy textbooks

Optional: access to Anatomy Browser

Content of Lesson Each student will be assigned a body part (these can be based off of the classroom curriculum: whichever parts of the body students are studying within their particular science class).

On the white rectangle of paper, students will draw the bone structure of their assigned bodypart.

On the next piece of parchment, the students will draw the circulatory system’s place within their part of the body (this can be facilitated by laying the parchment paper layer directly on top of the previous layers they’ve drawn of the given body part).

On the second piece of parchment, the students will draw the muscular system’s place within their part of the body and, if applicable, any organs therein (this can be facilitated by laying the parchment paper layer directly on top of the previous layers they’ve drawn of the given body part).

On the third piece of parchment, the students will draw the skin’s place (the external view) upon their part of the body (this can be facilitated by laying the parchment paper layer directly on top of the previous layers they’ve drawn of the given body part).

Have students finish the project by creating a “cover” using their second white piece of paper. The cover should contain the name of the body part (and possibly the student’s name as well). Stack the layers of the body part in their given order (from bone on the bottom to the cover on top) and staple along the left side to form a booklet. This booklet can facilitate classroom understandings of the given parts of the body and can assist in test-prep.

Vocabulary Circulatory

Learning Objectives Students will be able to locate tissues within the five levels of body organization, as well as cells, organs, and systems.

Students will be able to order the levels of body organization from smallest to largest in a variety of examples.

Students will be able to illustrate the relationships between these levels of body organization using markers or colored pencils.

Students will be able to engage in meaningful discussion about the activities completed within class.

Educational Standards

(MS-LS1-2.) Develop and use a model to describe the function of a cell as a whole and ways parts of cells contribute to the function.

(Literacy.RI.6.7) Integrate information presented in different media or formats (e.g., visually, quantitatively) as well as in words to develop a coherent understanding of a topic or issue.

(Literacy.RI.9-10.4) Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings.

(Literacy.RST.9-10.3) Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text.