Visualizing Human Structures & Pathologies In High School Anatomy Courses

3D Virtual Insight With Layer-By-Layer Dissection
The Harker School adopted the Anatomage Table into their human anatomy and physiology course to allow students to dissect cadavers and focus on different pathologies.

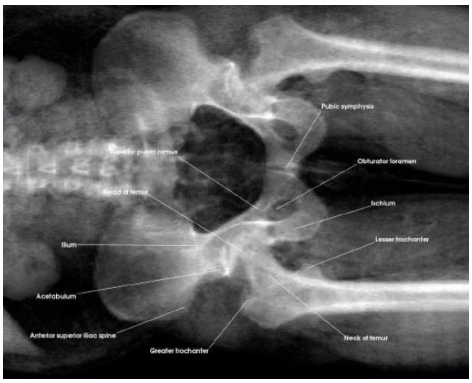
Students were able to dissect the cadaver in an interactive manner that promoted an open atmosphere and facilitated group learning. Additionally, the Table allowed students to view high-resolution regional scans that pertained to their current area of study. The high-resolution regional scans were useful for both faculty and students to attain a better understanding of the anatomy layer-by-layer and structure-by-structure. By doing so, students were able to comprehend why anatomical structures are situated the way they are and how the systems work together.

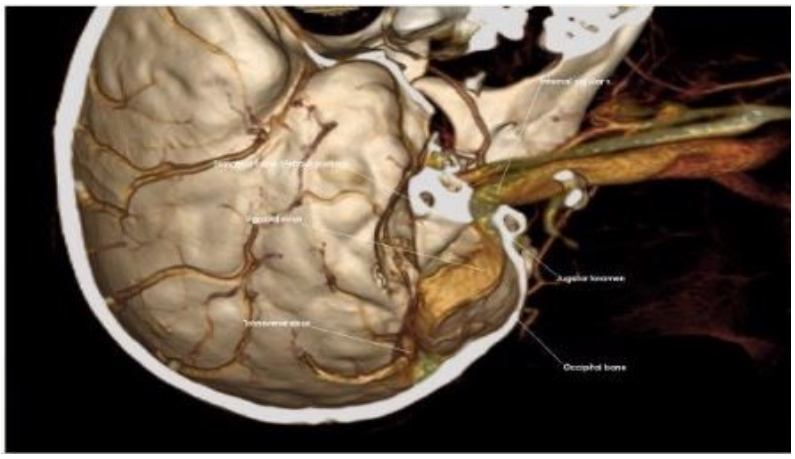
One if the largest technological resources that The Harker School contains is the Anatomage Table. Students dedicate their time by exposing themselves to the Table and their textbooks to gain better insight on anatomy and how different structures and systems work with each other. The 3D virtual cadaver lets students expose themselves to a high level of accurate anatomy without having to constantly focus on textbooks and anatomy models.

Teaching Goals For Mastering Anatomical Recall
Students can master anatomical terminology during the course throughout the year by integrating the Table into their curriculum. With a large volume of material and limited time to learn everything, the Table enables students to better absorb the material since they can actively manipulate, control, and dissect the cadavers.

Ultimately, the Table permits students to separate, isolate, identify, and recall anatomical structures of the body. Dissection is a new skill for these students, and structures tend to appear different in textbook illustrations. The Harker School does not have access to human cadavers, which is why the Table is a beneficial learning tool that provides students the opportunity to experience what it is like to perform dissections.

The third teaching goal is for students to gain a deeper understanding of key concepts, and apply knowledge rather than recall facts. Students become skilled at seeing relationships between structures, and understand how anatomy and physiology are related. Furthermore, the Table's regional scans show students how anatomical structures all work together.





Comparing Clinical Cases Of Normal & Unique Pathologies
The Table consists of a digital case library, which provides students hundreds of abnormal anatomy seen in 3D. Students can full dissect these scans and visualize healthy versus abnormal anatomy, or view diseased anatomy side-by-side. The Table library's database also gives students more information on the clinical cases.

3D Spatial Understanding Of Human Anatomy
One of the goals for this course is to teach anatomy as a means to not only understand abnormal or damaged anatomy, but to also grasp the concept of how a health body functions. Students are more encouraged to take better care of themselves when they understand the complications and issues that arise when one does not take care of their body. By adopting highly advanced and interesting technology, like the Anatomage Table, students can become inspired and are drawn to use it. The Table empowers future generations to become curious and interested in human anatomy and physiology.