Bond-Jackson’s Heart Model Rubric

Revised April 2019

Materials:

* Shoebox (detached lid)
* Cardboard (or corrugated box material from another box or a different shoe box (for partitions)
* Construction paper (red and blue) or odorless, non-toxicpaint
* Thick thread, twine, or yarn-like material to simulate coronary vessels on the outside the heart (box top, sides and bottom)
* Thick thread, twine, or yarn-like material to simulate intrinsic conduction system (bundles and fibers) inside the heart
* Material (shape and size-appropriate) to simulate SA and AV nodes

Directions:

* Using a standard-sized shoebox, construct a model of the human heart.
* The model should have a top (shoe box lid) that can removed to expose the chambers.
* Use cardboard, poster board, or material from another box to create partitions for compartmentalization (showing chambers) within the shoebox.
* The blood vessels should be constructed using hollow tubing that can be fashioned from stiff paper.
* Prefabricated tubing may also be used. The tubing should vary in size depending on the vessel (i.e. aorta larger that pulmonary vessels)
* The vessels MUST open into or out of the chambers to “allow blood to flow” in and out.