

Resources

- [Anatomy video](#)
- [Guide](#) associated with Home Science Tools dissection kit
- [In-lab question answers](#)
- [Video tutorial #1](#)
- [Video tutorial #1](#)

Outline

- I. Icebreaker
 - A. Have students answer a fun icebreaker question and popcorn around to other students.
- II. Overview of the heart
 - A. Trivia questions: Before each section, students answer fun fact trivia questions on the brain in the Zoom chat.
 - B. Function of heart
 1. Discuss the main functions of the heart and its role in the circulatory system.
 - C. Anatomy of heart
 1. Review the basic anatomy of a heart (e.g. arteries, veins, atria, etc.) and the process of blood flow throughout the heart
- III. Sheep heart dissection
 - A. Walk through steps of dissection (pause to show video demo at different stages)
 1. Observation: External anatomy
 - a) Identify apex, left / right ventricles, and coronary blood vessels.
 - b) Identify auricles and superior / inferior vena cava.
 2. Dissection: Internal anatomy
 - a) Guide through the initial cut of dissection.
 - b) Identify ventricles, tricuspid / mitral valves, chordae tendinae, and papillary muscles.
 - B. In-lab labeling activity: As students conduct the observation and dissection, they can follow along with the procedure using the labeling diagrams below.
 1. [Back](#)
 2. [Right](#)
 3. [Left](#)
 - C. In-lab questions
 1. Trace the path of blood from the right atrium to the aorta.
 2. Why are the walls of the left ventricle thicker than the walls of the right ventricle?
 3. What is the function of the mitral and tricuspid valves?
 - D. [Labeling activity](#)
 1. Following the dissection, test the knowledge that the students have picked up with an online group labeling activity.
- IV. Overview of cardiology profession
 - A. Walk through the responsibilities of a typical cardiologist / watch a video introducing the day and life of a cardiovascular surgeon.
- V. Kahoot!

- A. If time allows, play Kahoot! to continue testing concepts learned from the beginning of the presentation, as well as during the dissection.