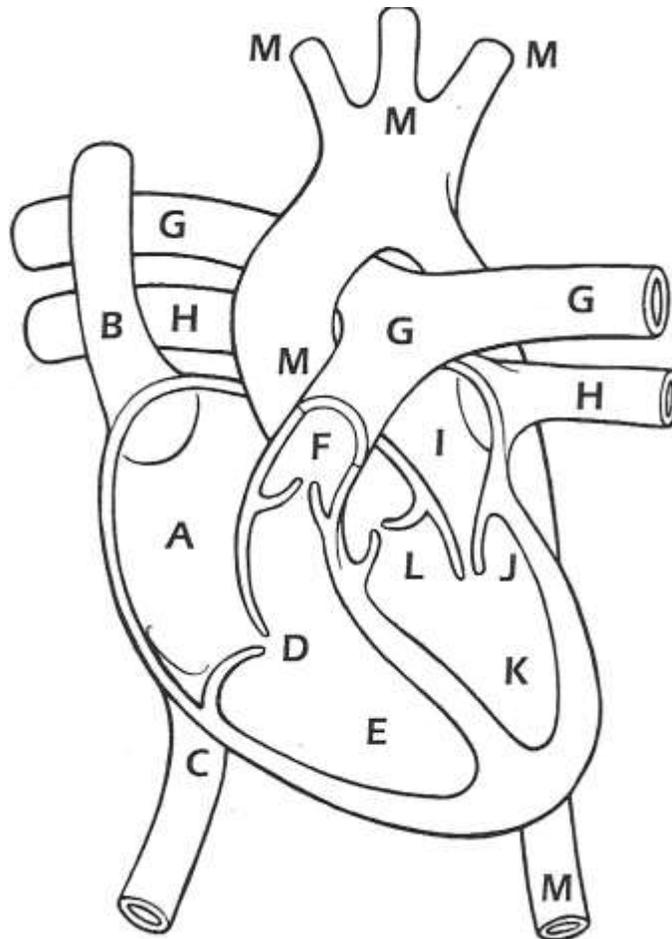


BODY SYSTEMS**THE PATH OF BLOOD**

The **RIGHT ATRIUM (A)**, which is the upper chamber of the right side of the heart, receives blood from the upper body through the **SUPERIOR VENA CAVA (BJ)**, and from the lower body through the **INFERIOR VENA CAVA (C)**. This blood is a darker color because it is returning from the body carrying carbon dioxide (waste from cells) that was released by body cells as the blood deposited oxygen. Blood then flows through the **TRICUSPID VALVE (DJ)** into the **RIGHT VENTRICLE (E)** which is the lower chamber on the right side of the heart. Through contraction of the right ventricle, the darker-colored blood is forced through the **PULMONARY VALVE (FJ)** into the **PULMONARY ARTERY (GJ)**. The **PULMONARY ARTERY (GJ)** branches to both the right and the

left lung to pick up oxygen and *release* carbon dioxide wastes. While in the lungs, the blood changes color to a bright red because it is now full of fresh oxygen needed by the body. It returns from both lungs through the **PULMONARY VEINS (HJ)**.

The red blood carrying oxygen for all body cells will now re-enter the left upper chamber of the heart the **LEFT ATRIUM (I)**. It then flows through the **MITRAL VALVE (JJ)** and into the lower left chamber; the **LEFT VENTRICLE (K)**. Finally, the oxygenated blood passes through the **AORTIC VALVE (L)** into the **AORTA (M)**, the largest artery where it is *sent* to all parts of the body.

BODY SYSTEMS

THE HEART

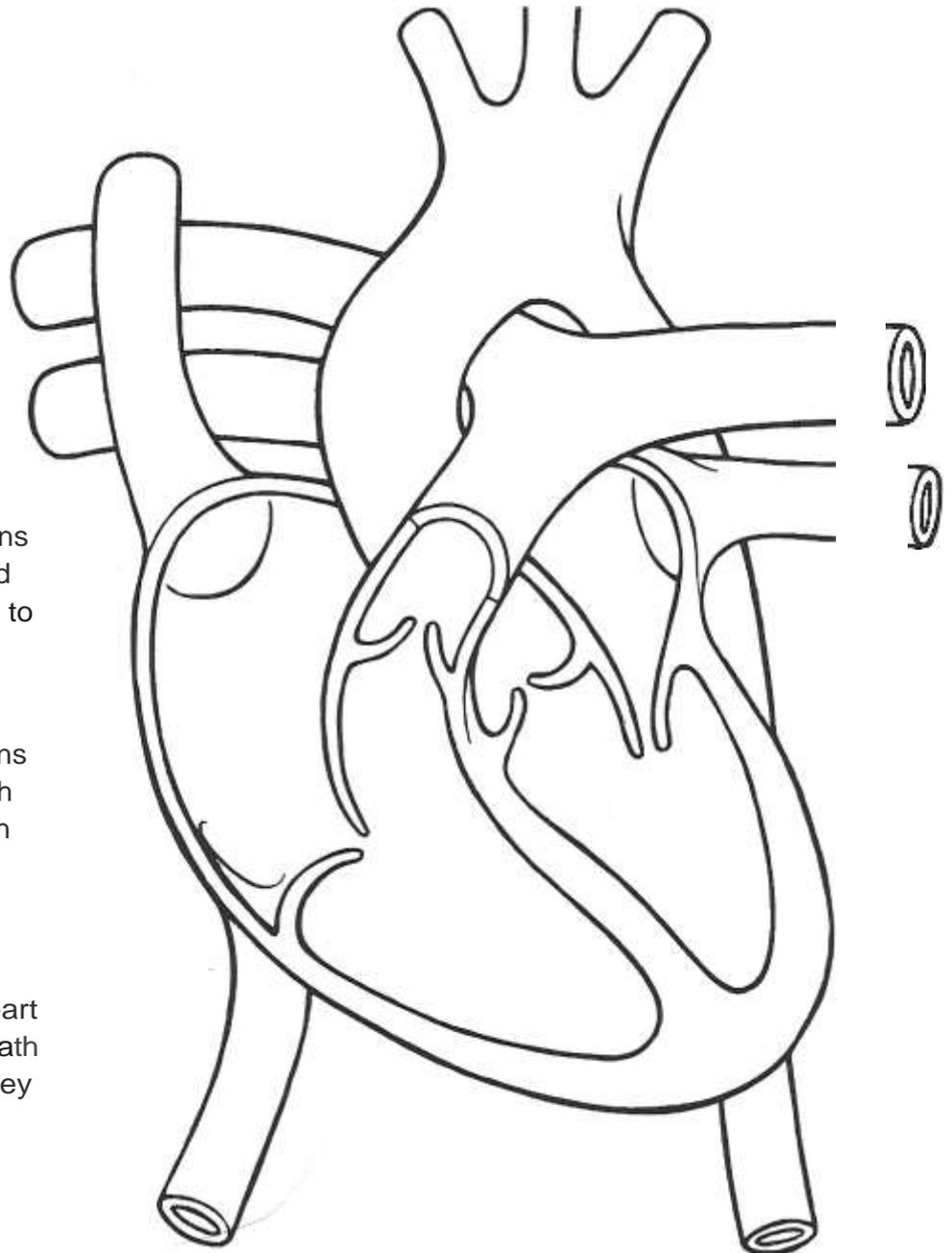
Use the information on page 12 to complete these activities:

1. Label these parts of the heart:

- right atrium
- left atrium
- right ventricle
- left ventricle

- pulmonary artery
- pulmonary vein
- superior vena cava
- inferior vena cava

- valves-tricuspid
- pulmonary
- mitral
- aortic



2. Lightly shade the sections blue that transport blood carrying carbon dioxide to the lungs.
3. Lightly shade the sections red that carry blood with a fresh supply of oxygen from the lungs to the body.
4. Draw arrows on the heart diagram to show the path blood takes on its journey through the heart.