

# Circulatory System

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Complete the sentences using the words presented below.**

blood vessels	ventricles	mitral	tricuspid	pulmonary
arterial	aortic	heart	atrioventricular	systemic
atria	veins	aorta	venous	capillaries

The circulatory system is composed of the heart and \_\_\_\_\_, including arteries, \_\_\_\_\_, and capillaries. There are two circulatory systems: the pulmonary circulation (from the heart to the lungs and back again) and the \_\_\_\_\_ circulation (from the heart to all the other parts of our bodies and back again).

The \_\_\_\_\_ is the key organ in the circulatory system. Its main function is to pump blood throughout the body. The heart has four chambers: two ventricles and two atria. The bottom part of the heart is divided into the right and left \_\_\_\_\_, which pump blood out of the heart. The upper part of the heart is divided in the right and left \_\_\_\_\_, which receive the blood entering the heart.

The atria are separated from the ventricles by the \_\_\_\_\_ valves: the \_\_\_\_\_ valve separates the right atrium from the right ventricle; the \_\_\_\_\_ valve separates the left atrium and the left ventricle. Two other cardiac valves separate the ventricles and the arteries that carry blood leaving the heart: the \_\_\_\_\_ valve, which separates the right ventricle from the pulmonary artery leading to the lungs, and the \_\_\_\_\_ valve, which separates the left ventricle from the \_\_\_\_\_, the body's largest blood vessel.

In the systemic circulation, \_\_\_\_\_ blood is pumped from the heart into the aorta, which divides into smaller arteries, until reaching all the cells of the body. A network of tiny \_\_\_\_\_ connects the arteries and veins. Then, the superior and inferior vena cava carries the blood from the cells to the heart. In the pulmonary circulation, the pulmonary artery carries \_\_\_\_\_ blood that goes to the lungs to pick up oxygen. After the gas exchange, pulmonary veins carry blood from the lungs back to the heart.