

# Circulatory System Modified

## Circulatory System

This system delivers \_\_\_\_\_ and \_\_\_\_\_ to all the \_\_\_\_\_ in the body and \_\_\_\_\_ and \_\_\_\_\_ to the \_\_\_\_\_ through blood vessels.

The main organ is the \_\_\_\_\_ (the pump).

The blood vessels - arteries, veins, and \_\_\_\_\_.

## Two systems in one:

1. Pulmonary circulation – sends blood from the \_\_\_\_\_ to the \_\_\_\_\_ and back
2. Systemic circulation – sends blood to the rest of the \_\_\_\_\_ and back to the heart

## Pulmonary Circulation

The \_\_\_\_\_ are where the oxygen and nutrients are picked up by the blood.

Also, where the carbon dioxide and other waste is \_\_\_\_\_ from the blood.

This happens in the \_\_\_\_\_ (air sacs) of the lungs.

## Systemic Circulation

Provides organs, tissues and cells with \_\_\_\_\_, so they get oxygen and other nutrients.

Accomplished through the \_\_\_\_\_: veins, arteries and capillaries

The largest blood vessels have names.

## Main Blood Vessels

Aorta is the main \_\_\_\_\_ of the heart carrying oxygenated blood to all parts of the body except the \_\_\_\_\_.

Vena Cava large \_\_\_\_\_ carrying deoxygenated blood back to the heart.

Superior Vena Cava returns blood from the \_\_\_\_\_ body.

Inferior Vena Cava returns blood from the \_\_\_\_\_ body.

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## Heart

A muscular organ about the size of a \_\_\_\_\_.

Located just behind and slightly \_\_\_\_\_ of the breastbone.

Pumps blood through a network of arteries, \_\_\_\_\_ and capillaries.

Call the \_\_\_\_\_ system

## Chambers of the Heart

The heart is made up of \_\_\_\_\_ chambers.

1. Right \_\_\_\_\_
2. Right Ventricle
3. Left Atrium
4. \_\_\_\_\_ Ventricle

There are \_\_\_\_\_ located between each chamber.

## Valves of the Heart

Control the \_\_\_\_\_ through the heart by opening and closing during \_\_\_\_\_

Allows blood to flow in only \_\_\_\_\_ direction

Mitral and \_\_\_\_\_ valve control blood flow from the atria to the ventricles.

\_\_\_\_\_ and pulmonary valve control blood flow out of the ventricles.

## Arteries and Veins

**Red** represents the \_\_\_\_\_ carrying oxygen and nutrients  
\_\_\_\_\_ from the heart to the body.

**Blue** represents the \_\_\_\_\_ carrying carbon dioxide and waste  
\_\_\_\_\_ the heart.

## Capillaries

Very \_\_\_\_\_ blood vessels \_\_\_\_\_ the arteries and veins.

Here is where the \_\_\_\_\_ is delivered to the cells along with other nutrients.

Also, \_\_\_\_\_ and \_\_\_\_\_ is picked up, returned to heart, and pumped to lungs.

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## **Some Diseases of the CS**

Atherosclerosis – hardening of the arteries due to \_\_\_\_\_

Myocardial infarction (heart attack) – Blockage of blood \_\_\_\_\_

Prolapsed valves – causes \_\_\_\_\_ flow of blood.

Arrhythmia – abnormal heart \_\_\_\_\_

High Blood Pressure – made the hear work \_\_\_\_\_