**Circulatory System Notes**

**\*\***The circulatory system carries \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to and from different places in the body.

\*\*\*\*The circulatory system consists of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

The circulatory system works like a **highway** in a city. Your blood delivers **nutrients** and **oxygen** to the tissues in your body just like the highways are used to deliver goods in a city.





The heart has \_\_\_\_ chambers.

 \_\_\_ atria

 \_\_\_ ventricles

**\_\_\_\_\_\_\_\_** carry blood from the body.

This blood DOES NOT contain oxygen.

**\_\_\_\_\_\_\_\_**carry blood away from the

heart. This blood DOES contain oxygen.

**How does the Heart work?**

STEP ONE

The heart beat begins as the heart muscles \_\_\_\_\_\_\_\_and blood \_\_\_\_\_\_\_\_ into the atria.

STEP TWO

The atria then \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the valves \_\_\_\_\_\_\_\_\_\_\_ to allow blood into the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

STEP THREE

The valves \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to stop blood from flowing backwards.

The ventricles \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ forcing the blood to leave the heart.

At the same time, the atria are \_\_\_\_\_\_\_\_\_\_\_\_\_ and once again filling with \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**\*\*\*The cycle then \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ itself\*\*\***

Blood from the heart gets around the body through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

There are 3 types of blood vessels:

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ carry blood \_\_\_\_\_\_\_\_\_\_\_from the heart
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ carry blood \_\_\_\_\_\_\_\_\_ the heart
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ link \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_

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**SUMMARY**

Arteries take blood \_\_\_\_\_\_ from the heart. The walls of an artery are made up of thick \_\_\_\_\_\_\_\_\_ walls and elastic fibres. Veins carry blood \_\_\_\_\_\_\_\_ the heart and also have valves. The \_\_\_\_\_\_\_\_\_ link arteries and veins, and have a one cell thick wall. Blood is made up of four main things \_\_\_\_\_\_, the liquid part of the blood; Red Blood Cells to carry \_\_\_\_\_\_; White Blood cells to protect the body from disease and \_\_\_\_\_\_\_\_\_ to help blood clot.