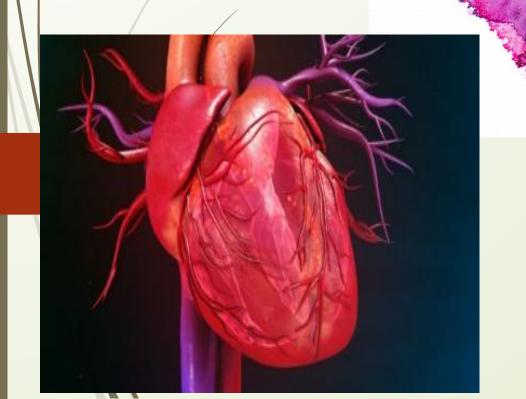
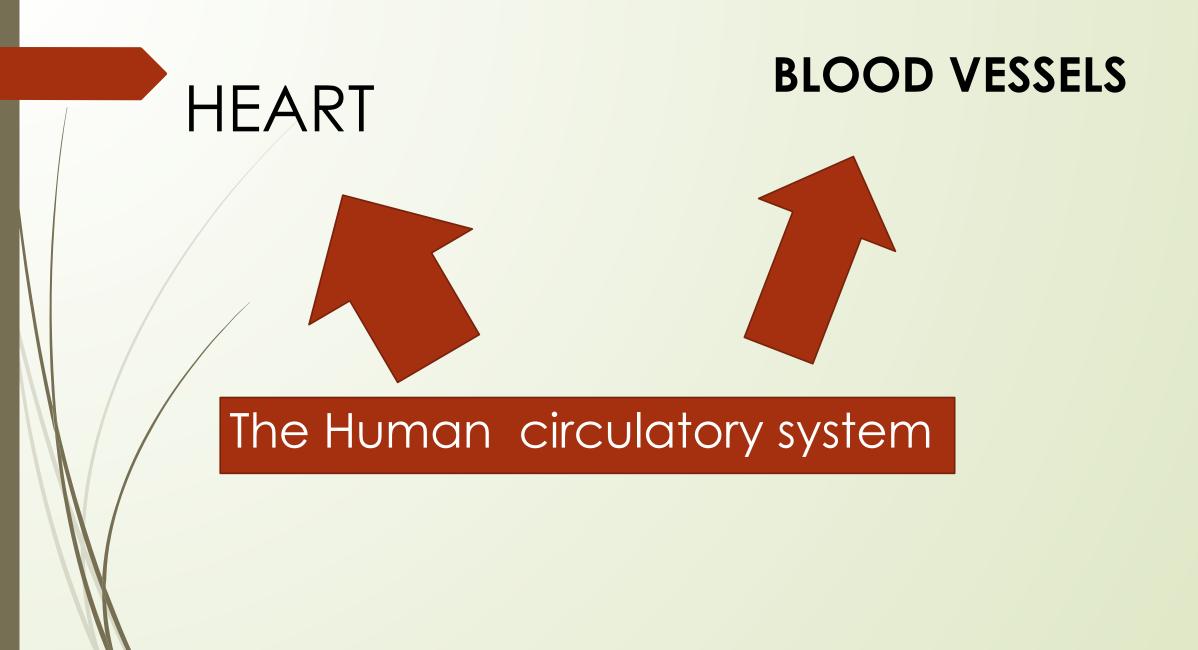


What is the engine of our body machine?



Heart and Blood Vessels

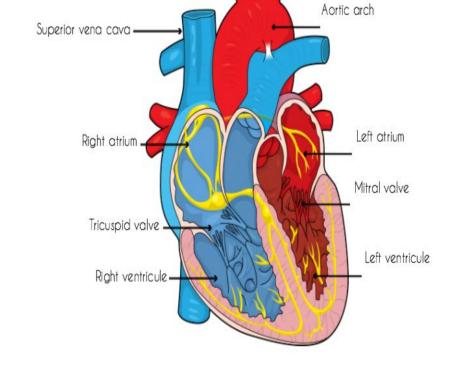




HEART

- Is a muscular organ
- Consist 4 chambers
- 1. two ventricles
- 2. /two atria
- Valves pretend blood going back
- Blood from atria moves to ventricles
 - Ventricles pump blood out to organs

THE BASIC HEART ANATOMY Superior vena cava Aortic arch



Source: http://www.globalclassroom.org/hemo.html

VESSELS

- Three main type blood vessel:
- 1. Coming from the heart are called ARTERIAS
- 2. That come to the heart are called **VEINS**
- 3. The small network **CAPILLARIES** connect arterias and veins

- Have dense, smooth and <a>I elastic walls
 - Structure of walls allows the arteries to withstand a great deal of pressure
- Exchange of gases and | Flow to the heart substances between the blood and tissue takes place
- Walls are very thin
- It helps to oxygen and nutrients enter to tissue
- Wastes go out of the tissues

- Walls are thinner than arteries
- Blood pressure in them small
- Contain valves, which prevent blood in opposite direction

Earthworm Circulatory system

- Does not have a heart
- Has small body vessels
 - Vessels pump the blood through the body
- Two main blood vessels:
 - **Dorsal and Ventral**

Mollusks circulatory system

- Have a Heart
- Consist of one Ventricle and one or two Atria
- Vessels pour blood into body
- Blood interacts with organs and tissues
- Collects to vessels again

Arthropods circulatory system

- Have tubular heart
- Blood does not always move by vessels
- Vessels pour blood into body
- Blood interacts with organs and tissues
- Cøllects to vessels again