

# Circulatory (Cardiovascular) System

## Main Functions:

- ① pumps blood to circulate Oxygen ( $O_2$ ) and nutrients (food from intestines)
- ② Picks up waste (Carbon dioxide -  $CO_2$ ) and carries to your lungs to be expelled

## Main Organs involved:

- ① Heart
- ② Blood Vessels
- ③ BLOOD

### Linked organs

- lungs
- intestines

### Blood Vessels

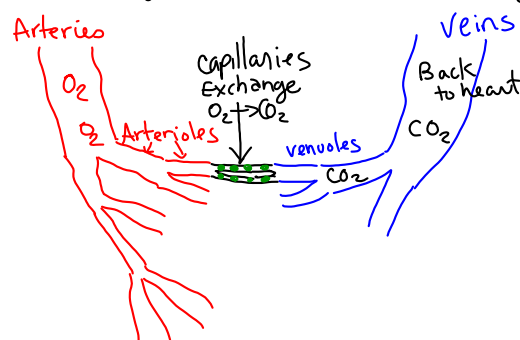
Arteries \* carry Blood away from the heart  
 \* typically carry Oxygenated Blood, one exception is the pulmonary artery  
 \* thick/muscular to deal with the pressure of pumping from  $\heartsuit$

### Veins

\* carries Blood to heart  
 \* carries Blood high in  $CO_2$  except the pulmonary vein  
 \* not muscular, thin

### Capillaries

ONE cell thick to allow exchange



# BLOOD

## Red Blood Cells (RBC)

→ have hemoglobin protein which allow O<sub>2</sub> to be carried

## White Blood cells (WBC)

fight infection

## Plasma

"water" portion

## Platelets

\* stop cuts from bleeding  
"Clot" the blood to seal the wound