

## 2.3 Circulatory System

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- Consists of heart, arteries, veins, and capillaries
- Moves blood throughout the body
- Your heart is a pump that pushes 4 L of blood through your body every minute.

### Blood Vessels

3 types:

#### Arteries

- carry **oxygenated blood** away from the heart
- thick walls
- aorta is the largest

#### Veins

- carries **deoxygenated blood** returning to the heart
  - ↳ thicker.
  - ↳ much darker in colour
  - ↳ carrying wastes such as  $\text{CO}_2$  (carbon dioxide)
- have valves that prevents back flow of blood
- thinner walls, because the blood travelling back to the heart is under pressure like the blood in arteries

#### Capillaries

- network of tiny blood vessels
- transfer of **oxygen + nutrients** into the body cells and collecting **wastes ( $\text{CO}_2$ )** from the cells.

