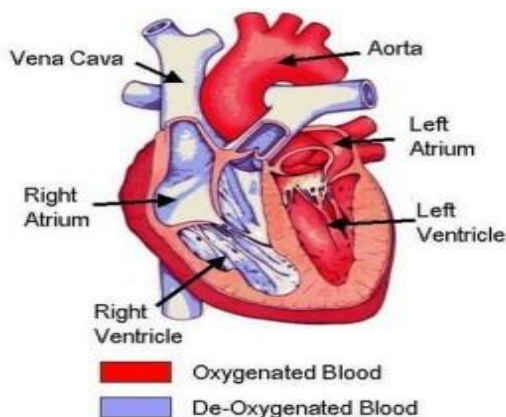


What should I already know?

- Which things are living and which are not.
- Classification of animals (e.g. amphibians, reptiles, birds, fish, mammals, invertebrates).
- Animals have offspring which grow into adults.
- The basic needs of animals for survival (water, food, air)
- Animals get nutrition from what they eat.
- Some animals have skeletons for support, protection and movement.
- **Respiration** is one of the seven life processes.
- The life cycle of a human and how we change as we grow.

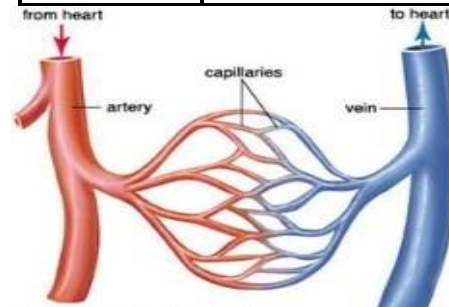
What will I know by the end of the unit?

- | | |
|---|---|
| What is the circulatory system ? | <ul style="list-style-type: none"> • It is made of the heart, lungs and the blood vessels. • Veins carry deoxygenated blood from the body to the heart. • Arteries carry oxygenated blood from the heart to the rest of the body. • Nutrients, oxygen and carbon dioxide are exchanged through the capillaries. |
| Choices that can harm the circulatory system . | <ul style="list-style-type: none"> • Some choices, such as smoking and drinking alcohol can be harmful to our health. • The tobacco in smoking can cause short-term effects such as shortness of breath, difficulty sleeping and loss of taste and long-term effects such as lung disease, cancer and death • Alcohol can cause short-term effects such as addiction and loss of control and long-term effects such as organ damage, cancer and death |
| The heart | <ul style="list-style-type: none"> • The heart is composed of four chambers; the right atrium. The ventricle, the left atrium and the left ventricle. • How often your heart pumps is called your pulse. |



Vocabulary

aorta	the main artery blood leaves your heart through
arteries	it carries oxygenated blood from your heart to the rest of your body
atrium	one of the chambers in the heart
blood vessels	the narrow tubes your blood flows through. Arteries, veins and capillaries are blood vessels .
capillaries	tiny blood vessels in your body
carbon dioxide	a gas produced as people breathe out
circulatory system	it carries blood, supplies nutrients and oxygen and removes waste products from the body
deoxygenated	blood that does not contain oxygen
heart	the organ that pumps blood
lungs	two organs inside your chest which fill with air when you breathe in
nutrients	substances that help animals to grow
organ	a part of your body that has a particular purpose
oxygen	a gas that animals need to survive
oxygenated	blood that contains oxygen
pulse	the regular beating of blood through your body
veins	a tube in your body that carries deoxygenated blood to your heart from the rest of your body
vena cava	a large vein through which deoxygenated blood reaches your heart from the body
ventricle	one of the chambers in the heart



Data Handling

Record and display results using an appropriate method for investigation 1. The investigation should be repeated, and the average calculated using the mean.

