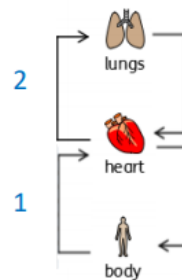
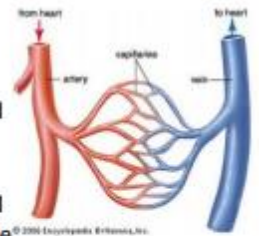




Key Vocabulary and Spellings

1	aorta	the main artery through which blood leaves your heart before it flows through the rest of your body
2	arteries	a tube in your body that carries oxygenated blood from your heart to the rest of your body
3	blood vessels	the narrow tubes through which your blood flows. Arteries, veins and capillaries are blood vessels
4	capillaries	tiny blood vessels in your body
5	carbon dioxide	a gas produced by animals and people breathing out
6	circulatory system	the system responsible for circulating blood through the body, that supplies nutrients and oxygen to the body and removes waste products such as carbon dioxide.
7	deoxygenated	blood that does not contain oxygen
8	heart	the organ in your chest that pumps the blood around your body
9	lungs	two organs inside your chest which fill with air when you breathe in. They oxygenate the blood and remove carbon dioxide from it
10	nutrients	substances that help plants and animals to grow
11	oxygenated	blood that contains oxygen
12	pulse	the regular beating of blood through your body. How fast or slow your pulse is depends on the activity you are doing
13	respiration	process of respiring; breathing; inhaling and exhaling air. In KS3 science, this process is referred to as ventilation.
14	vein	a tube in your body that carries deoxygenated blood to your heart from the rest of your body
15	Vein cava	a tube in your body that carries deoxygenated blood to your heart from the rest of your body
16	Ventilation	The exchange of air between the lungs and the atmosphere so that oxygen can be exchanged for carbon dioxide

- The **circulatory system** is made of the **heart, lungs** and the **blood vessels**.
- **Arteries** carry **oxygenated** blood from the **heart** to the rest of the body.
- **Veins** carry **deoxygenated** blood from the body to the **heart**.
- **Nutrients, oxygen** and **carbon dioxide** are exchanged **via the capillaries**.



1. **Deoxygenated** blood is sent to the **heart** from the rest of the body.
2. This is then sent from the **heart** to the **lungs**. Here, the blood picks up **oxygen** and disposes of **carbon dioxide**.
3. **Oxygenated** blood is then sent back to the heart.
4. The **heart** sends the **oxygenated** blood back to the rest of the body.

How often your **heart pumps** is called your **pulse**.

Key Investigations

1	What is the circulatory system?
2	What are choices which can harm the circulatory system?
3	Why is exercise so important?
4	What are the functions of the different parts of the circulatory system?

Top 5 Topic Facts

1	Animals are classified into amphibians, reptiles, birds, fish, mammals, invertebrates)
2	Animals can be carnivores, herbivores and omnivores.
3	The basic needs of animals for survival are water, food and air.
4	Respiration is one of the seven life processes.
5	The basic parts of the digestive system are the mouth, oesophagus, stomach, small intestine, large intestine, and anus. The liver, pancreas, and gallbladder are the solid organs of the digestive system .