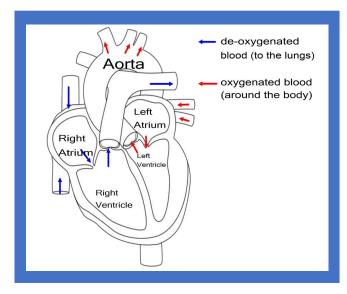
## Knowledge Organiser Year 4 Science - Circulation and Respiration

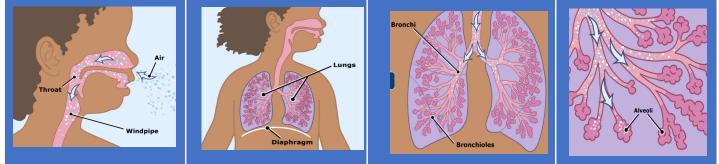
## The heart pumps blood around the body. Blood carries oxygen and vital nutrients to every part of the body.



Artery	Carries oxygen-rich blood away from the heart.
Vein	Carries deoxygenated blood to the heart.
Capillaries	Thin blood vessels that connect arteries and veins.

Artery	thick, elastic wall small lumen
Vein	thin wall large lumen valve
Capillary	single cell wall

Atria	The two top chambers of the heart; right and left. Take in blood from the vena cava and pulmonary veins.
Ventricles	Two lower chambers; right and left. Pump blood out of the heart.
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Lungs	Inflatable sacs that expand and contract as you breathe.
Trachea	Tube that carries air from the mouth and nose to the lungs (also called windpipe).
Bronchi	Tubes that carry air from the trachea to the lungs.
Alveoli	Air sacks where oxygen and carbon dioxide are exchanged.



Prior learning Year 1/2 Science-The Human Body

## Scientific investigation Aim-Purpose or reason for experiment Prediction-What will happen in the experiment Method- Step by step process Variable- anything that change or be changed Fair test- Independent variable is changed but all the controlled variable stays the same.