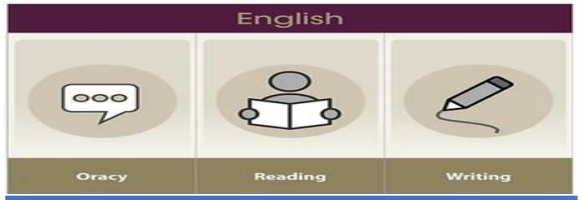
As a scientist, what do our organs do?

SCIENCE KNOWLEDGE ORGANISER YEAR 6

ENGLISH CONCEPTS



As an orator, I can …

- adjust my voice to create added interest and engagement
- talk for a purpose and add intonation

As a reader, I can …

- Can I research key facts
Can I decide on key questions to research

As a writer, I can …

- Write to create greater awareness.
- Write to elicit feelings
- Plan their writing and select the appropriate form.

1	**Heart**	a hollow muscular organ that pumps the blood through the circulatory system by rhythmic contraction.
2	**lungs**	One of a pair of organs in the chest that supplies the body with oxygen, and removes carbon dioxide from the body.
3	**Circulatory system**	the system that circulates blood through the body
4	**vein**	tubes (blood vessels) forming part of the circulatory system of the body, carrying deoxygenated blood to the heart.
5	**artery**	the blood vessels that bring oxygenated blood from your heart to your body
6	**oxygen**	The most common element on Earth and vital for life.
7	**drugs**	a medicine or other substance which has an effect when introduced into the body.
8	**capillaries**	delicate blood vessels that exist throughout your body. They transport blood, nutrients and oxygen to cells in your organs and body systems. Capillaries are the smallest blood vessels in your circulatory system.

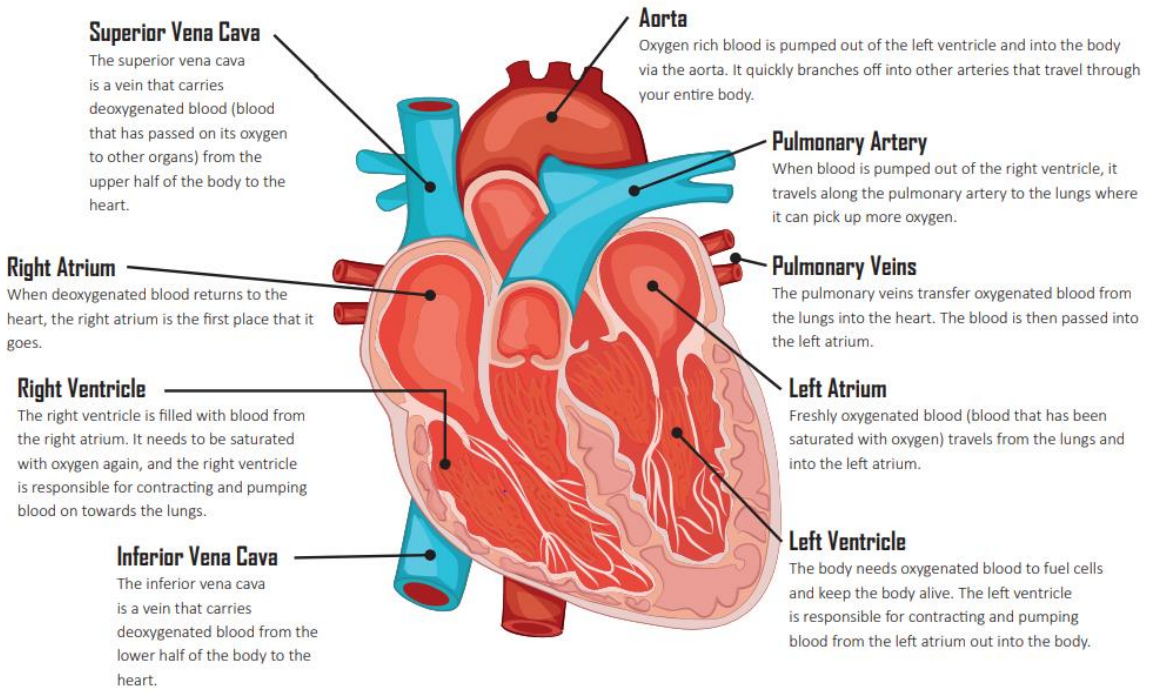
As a scientist, what do our organs do?

SCIENCE KNOWLEDGE ORGANISER YEAR 6

Knowledge – I know	
1	I know how to use new words and vocabulary appropriately
2	I know different themes and conventions from a wide range of books
3	I can use clauses to add detail.

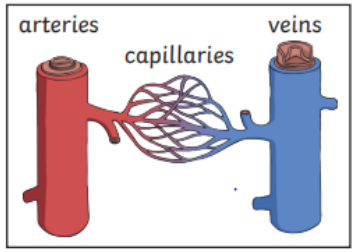
Useful links/Prior learning

1	https://www.bbc.co.uk/bitesize/articles/z9w9r2p
2	https://www.youtube.com/watch?v=pjOxpLEynIE
3	https://www.natgeokids.com/uk/primary-resource/human-heart-primary-resource/



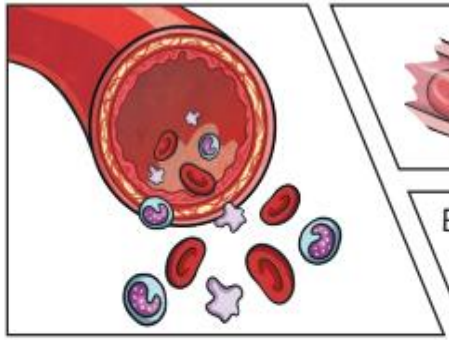
Capillaries are the smallest **blood vessels** in the body and it is here that the exchange of water, nutrients, oxygen and carbon dioxide takes place.

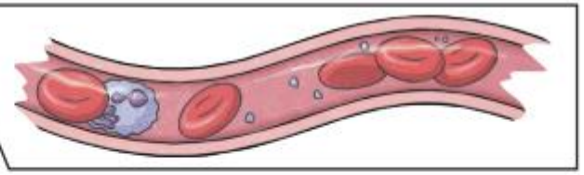
Arteries carry **oxygenated blood** away from the **heart**.



Veins carry **deoxygenated blood** toward the **heart**.

If you linked up all of the body's blood vessels, including arteries, capillaries, and veins, they would measure over 60,000 miles.





The liquid part of blood contains water and protein. This is called plasma.

Blood transports:

- gases (mostly oxygen and carbon dioxide);
- **nutrients** (including water);
- waste products.