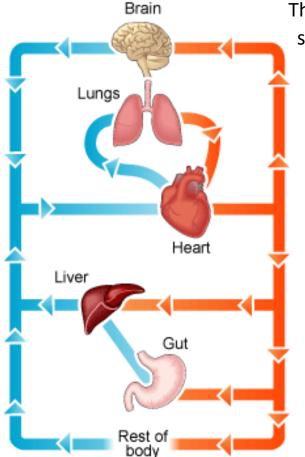




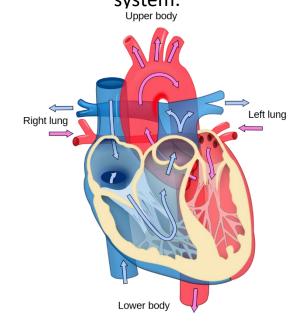
## **Knowledge Organiser – Animals including Humans (Science Year 6)**

| Key         | Definition                 |
|-------------|----------------------------|
| Vocabulary  |                            |
| Circulatory | System that moves blood    |
| system      | throughout the body.       |
| Blood       | Body fluid that carries    |
|             | oxygen and other           |
|             | substances around the      |
|             | body.                      |
| Blood       | Tubes that carry blood     |
| vessels     | through the body.          |
| Oxygen      | Used to make energy        |
|             | and is absorbed into the   |
|             | body through the lungs.    |
| Carbon      | Waste product made         |
| dioxide     | when the body makes        |
|             | energy. It leaves the      |
|             | body through the lungs.    |
| Lungs       | Organs in the body used    |
|             | to breathe air in and out. |

This is a basic diagram of the circulatory system. It shows the flow of blood around your body.



The human heart works like a pump as it sends blood around your body to keep you alive. It pumps the blood continuously through the circulatory system.



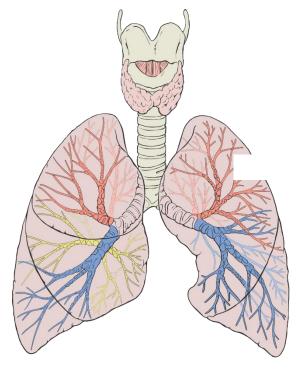


This energy is used all over the body for movement, growth, repair and defence.

Veins carry blood from the body to the heart, whereas arteries carry blood away from the heart to the body.

Capillary

The lungs are the organs that we use to breathe.



Red blood cells transport oxygen.
White blood cells fight disease.
Platelets cause the blood to clot
when you have a cut.

Red blood cell

White blood cell

Platelet

PLASMA

2. Blood moves quicker around the body – higher pulse rate.

3. Blood and muscle temperature rises.

 Blood vessels near the skin surface dilate to get rid of heat.

5. Your muscles work

in to sweat to and relaxing.

Capillaries are very tiny blood vessels that connect arteries and veins.

7. Increased breathing rate.

Your heart rate increases.

You begin to sweat to cool yourself down and to get rid of some urea.