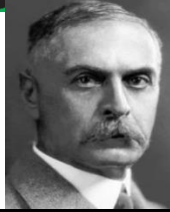


Scientific Enquiries



WHO?

Karl Landsteiner



Year 3 & 4


Biology




Vocabulary

circulatory system	The system that circulates blood around the body (the heart, lungs and vessels).	atrium	The two upper chambers of the heart.
pulse	The throbbing of the arteries as blood is pumped through the vessel.	ventricle	The two lower chambers of the heart.
oxygenated	Full of oxygen.	blood vessels	Tubes in the heart that carry blood e.g. arteries, veins and capillaries.
deoxygenated	Without oxygen.	osmosis	The movement of water from high concentration to low concentration.


WHAT?

1. 


- Your heart is at the centre of your **circulatory system**.
- Your heart is split into 4 chambers: **left atrium, right atrium, left ventricle, right atrium**.
- **Oxygenated** blood is pumped to different body parts
- **Deoxygenated** blood is pumped to the lungs.

2. 

- There are three main **blood vessels**: **arteries, veins** and **capillaries**.
- **Arteries** take **oxygenated** blood away from the heart
- **Veins** take **deoxygenated** blood back to the heart
- **Capillaries** are **microscopic** and connect the arteries and veins
- Poor **lifestyle** can make the arteries **restrictive**.


3. 

- **Blood** is made up of **red blood cells, white blood cells, platelets** and **plasma**.
- **Red blood cells** carry **oxygen** to parts of the body.
- **White blood cells** fight off **infection** in the body.
- **Platelets** thicken and clot to stop us from bleeding.
- **Plasma** is the **fluid** that all of the above travels in.


4. 

Diffusion vs Osmosis

- **Diffusion** is where **liquids and gases** move from **high concentration** to **low concentration**.
- **Osmosis** is the movement of **water** from **high concentration** to **low concentration**.
- **Nutrients** are transported from the **small intestine** into the **blood stream** through **diffusion**.

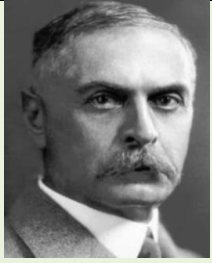
5. 

- **Diet** and **exercise** affects how healthy we are.
- **BPM** means '**beats per minute**'.
- Resting heart rate is 60-100 BPM.
- **Exercise** strengthens **bones, muscles** and reduces risk of **diseases**.

6. 

- There are four types of **drugs**: **painkiller, stimulant, depressant** and **hallucinogen**.
- Drugs that are not medically prescribed are called **recreational drugs**.
- **Alcohol** is a type of drug and it is a **depressant**.

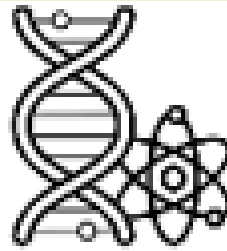
Helpful links



Learn more about Karl Landsteiner



What is biology?



What does the heart do?



What are blood vessels?

