



The Different Parts of Blood and Their Jobs

KS4 BIOLOGY

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What Is Blood Made Of?

Your blood isn't just one red liquid — it's actually a mixture of four different parts, all working together to keep you alive and healthy. Think of blood like a special delivery team inside your body, with different workers doing different jobs.

Think of it like a busy package delivery service where different people handle different tasks.

Red Blood Cells: The Oxygen Delivery Workers

Red blood cells are the most common cells in your blood. There are about **25 trillion** of them in your body right now! Their job is to carry **oxygen** from your lungs to every part of your body. They contain a special protein called **haemoglobin** that grabs oxygen and holds it tight until it reaches somewhere that needs it.

Without red blood cells, your muscles and brain wouldn't get the oxygen they need to work properly. This is why people with **anaemia** (not enough red blood cells) feel tired and weak.

White Blood Cells: Your Bodyguard Army

White blood cells are like tiny soldiers patrolling your bloodstream, looking for germs, viruses, and bacteria that could make you ill. When they find an invader, they attack and destroy it. Different types of white blood cells do different jobs — some remember dangerous germs they've fought before, while others act like bodyguards, jumping into action immediately.

Think of it like a security team protecting a theme park — they spot troublemakers and remove them before anyone gets hurt.

Platelets: The Repair Crew

Platelets are tiny fragments of cells that form blood clots. When you cut yourself, platelets rush to the wound and stick together to create a scab that stops the

bleeding. Without platelets, even a small cut could be extremely dangerous because the blood would never stop flowing.

Plasma: The Liquid Transport System

Plasma is the yellowish liquid that carries everything else. It's about **90% water**, but it also contains nutrients, hormones, and proteins. Plasma delivers food energy to your cells and carries away waste products your body doesn't need anymore.

All four parts work together constantly, keeping you healthy and strong.