



The Message in the Blood Drop

A science story about blood, oxygen, and tiny helpers



Maple School Morning

At Maple School, Mia raced across the playground. Her heart went thump, thump, thump as she ran past the swings and the basketball court. Then she got a tiny paper cut and noticed one bright red drop on her finger. “Where are you going?” Mia whispered.



A Tiny Surprise

The blood drop shimmered, and Mia imagined herself shrinking smaller and smaller until she was tiny as a dust speck. Suddenly, she was floating in a warm red river. A smiling red blood cell waved at her. "I'm Ruby," she said. "Hop on! I'll show you where blood goes."



The Heart's Big Push

Ruby carried a little blue bubble. "This is oxygen," she explained. "I deliver it all around the body." The red river rushed toward the heart. THUMP! THUMP! The heart squeezed with a strong beat and pushed everyone forward like a powerful pump.



A Stop at the Lungs

Next, Mia and Ruby whooshed to the lungs. There, Ruby picked up fresh oxygen and held it tightly. “We need this for every part of the body,” Ruby said. Mia looked around in wonder. She had never imagined that breathing helped her blood get ready for its trip.



Off to the Muscles

Soon the blood river raced down to Mia's tired legs. "Your muscles asked for extra oxygen because you were running," Ruby said. Mia laughed. "So that's why my heart beats faster when I play!" Ruby nodded. "Exactly. Your body works as a team."



Germ Patrol

Just then, a round white blood cell rolled by. “Captain Wally, germ patrol!” he announced. Near Mia’s tiny cut, sneaky germs were trying to slip inside. Captain Wally and his white blood cell team hurried over to block the way and protect the body.



Patch It Up!

Then tiny platelets rushed in. “Sticky patches coming through!” they called. They gathered at the cut and helped close the opening so the skin could start to heal. With the cut sealed and the germs kept out, Mia could see how many tiny helpers were busy inside one small drop of blood.



Back to the Playground

In a blink, Mia was back on the playground. Her finger still had a little bandage on it, and her heart still drummed from running, but now she understood why. “Thank you, Ruby. Thank you, Captain Wally. Thank you, platelets,” she whispered. Mia smiled, knowing her body was full of amazing helpers.

Science Element



The heart pumps blood so it can move all around the body.



In the lungs, red blood cells pick up fresh oxygen.



White blood cells help protect the body from germs.



Platelets help close cuts so the body can heal.

What Mia Learned

Blood travels through the body carrying oxygen. The heart pumps blood so it can move everywhere. In the lungs, red blood cells pick up oxygen and deliver it to the body. White blood cells help fight germs, and platelets help close cuts so the body can heal.



THE END

Keep wondering. Keep exploring.