Collins







ALL ABOUT THE HUMAN BODY







PACKED WITH FASCINATING FACTS!

ALL ABOUT

THE HUMAN BODY

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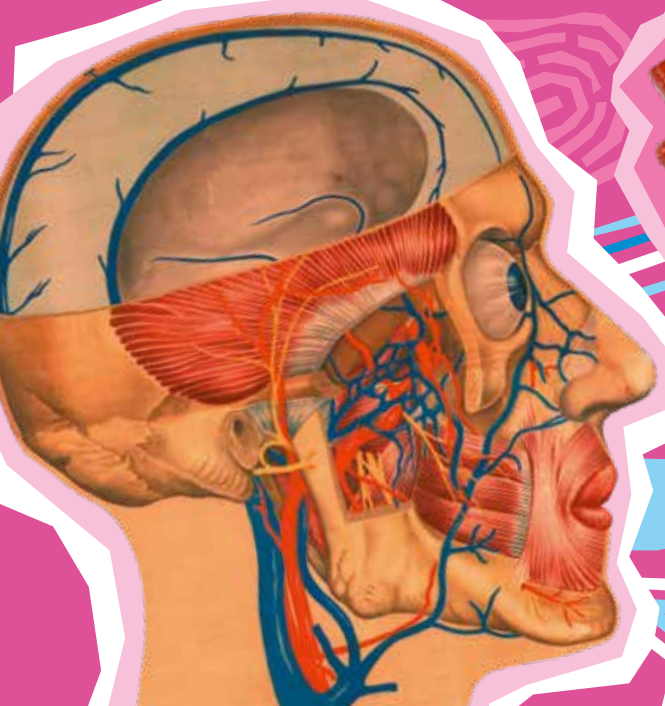
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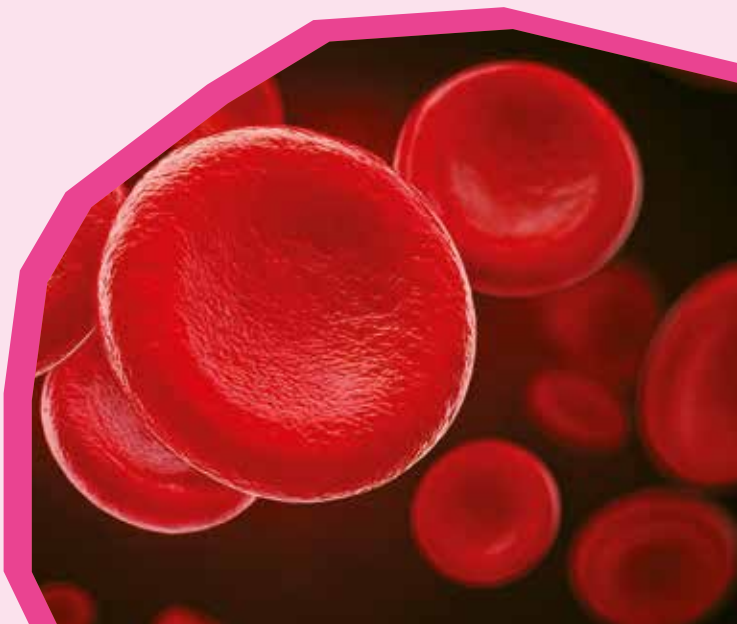
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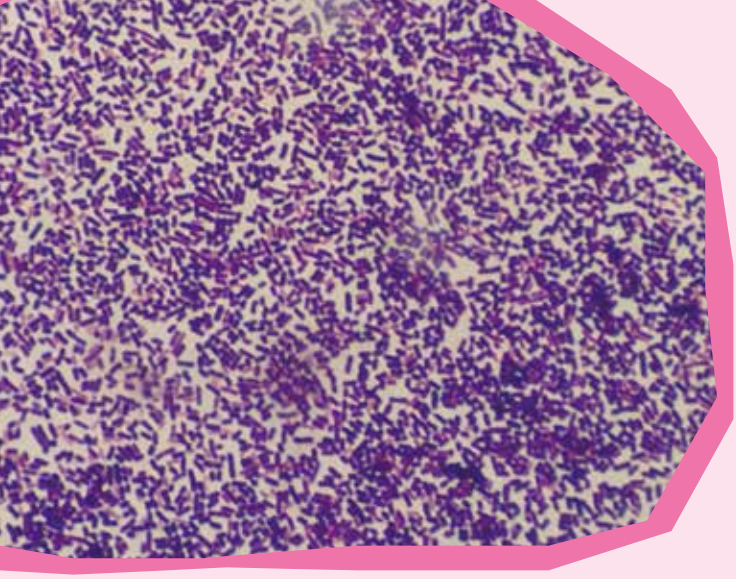
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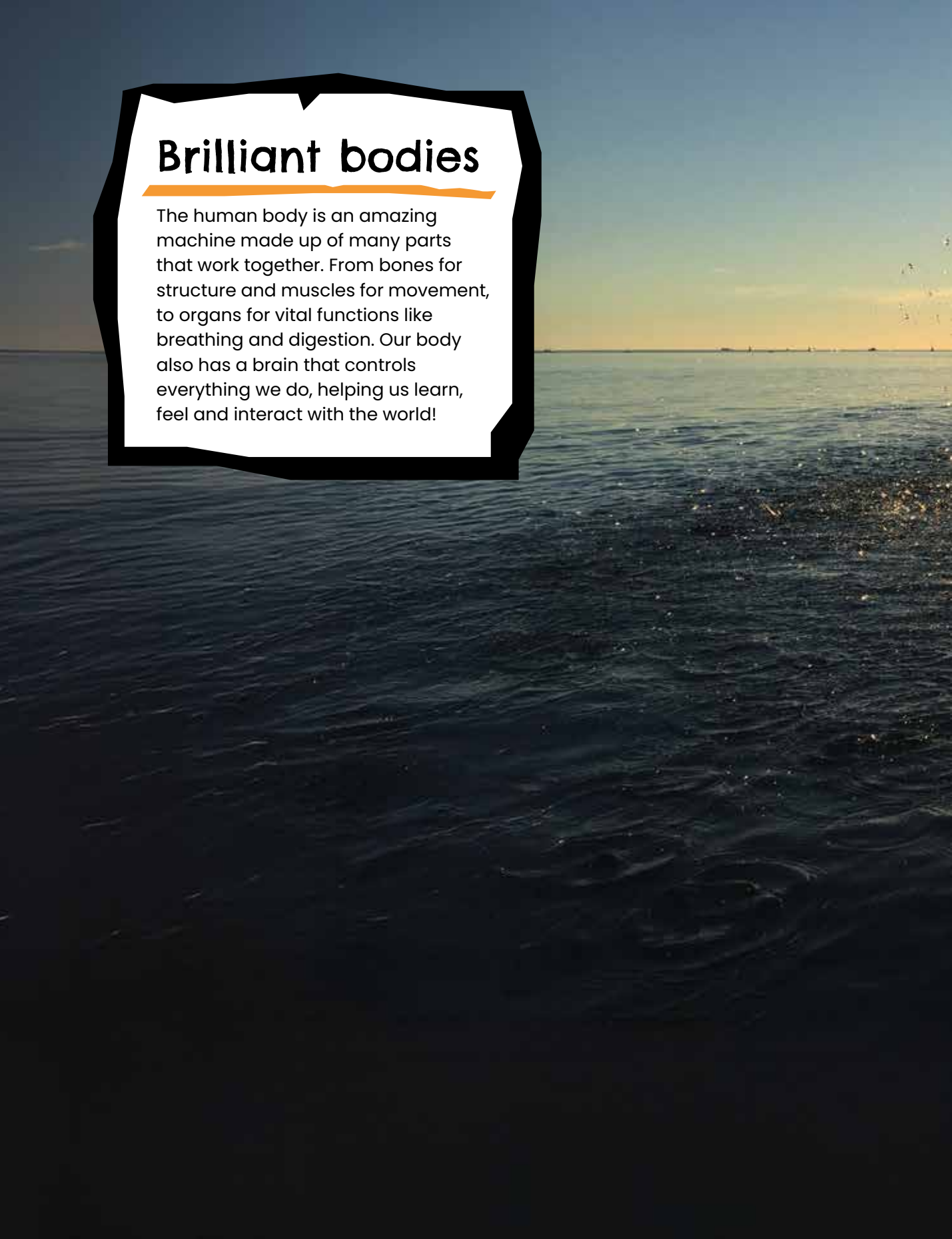
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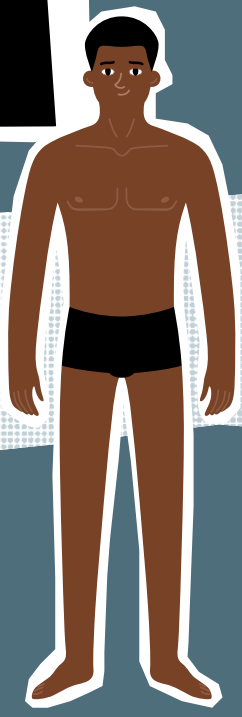
Brilliant bodies

The human body is an amazing machine made up of many parts that work together. From bones for structure and muscles for movement, to organs for vital functions like breathing and digestion. Our body also has a brain that controls everything we do, helping us learn, feel and interact with the world!



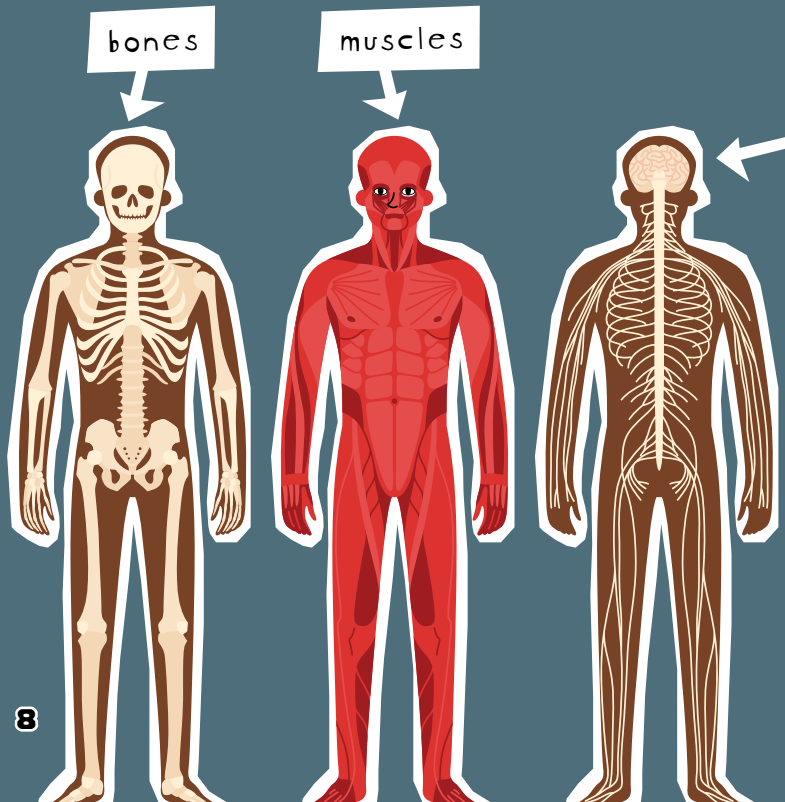
THE BODY

You live with your body all day, every day, but have you ever stopped to think about what makes it up? From teeny-tiny cells to big strong bones, the many parts of your brilliant body work together to let you breathe, move, eat, sleep – and play!



Bones & muscles

Your skeletal and muscular systems are made up of all the bones and muscles that support your body and help you move.



Brains & nerves

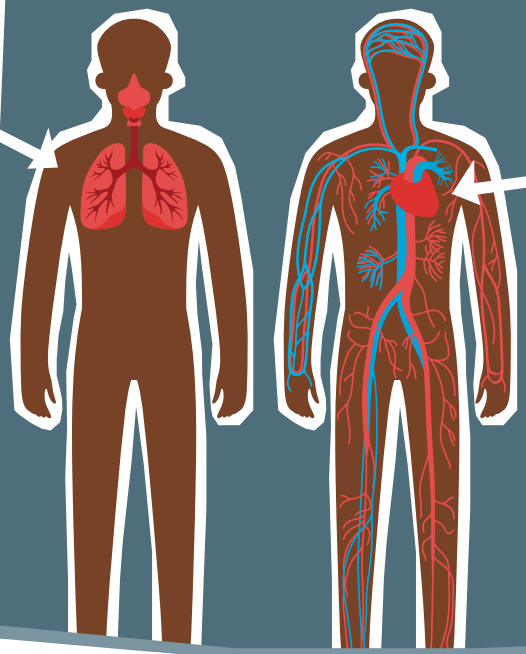
Your brain is the control centre of your body. It sends and receives messages throughout the body through a network of nerves in the nervous system.

FASCINATING FACT

If you could lay out all the nerves in your body end to end, they would stretch for about 70 km. That's the same length as around 765 football pitches!

Lungs

The respiratory system is made up of your lungs and other body parts that help you breathe in and out.

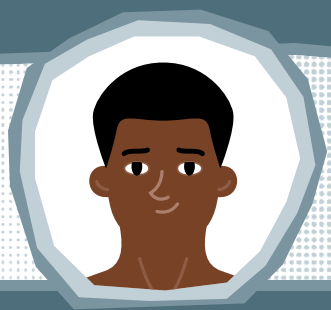


Heart and blood

The heart pumps blood through your body in what is called the circulatory system. The blood delivers important supplies to other parts of your body.

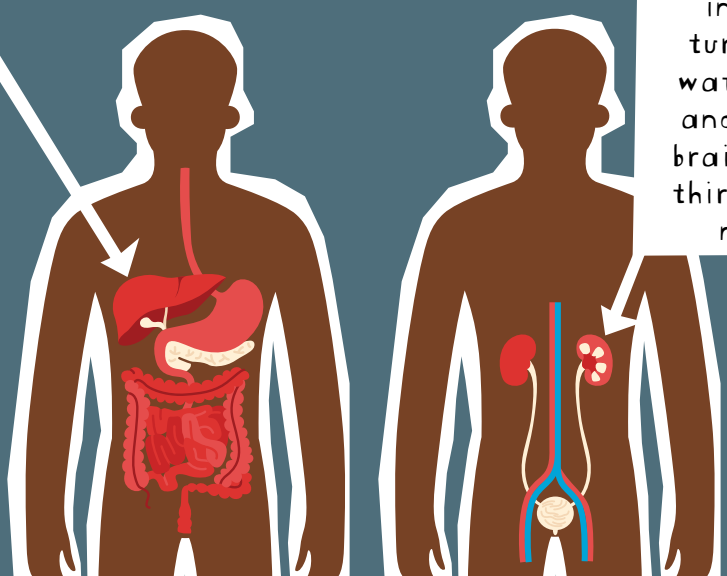
Five senses

Touch, taste, smell, hearing and sight – your body helps you to discover the world around you too!



Digestive system

The digestive system processes the food that enters your body – from your mouth and stomach all the way to the waste that comes out the other end.



Urinary system

The urinary system controls the water levels in your body, turning excess water into urine and telling your brain that you're thirsty when you need more!

IN THE GENES

The colour of your eyes, the shape of your face, the way you smile... all of these traits are coded in special chemicals in your body. These are the chemicals that make you *you*.

DNA

Inside your body are long twisting strings of chemicals called DNA (short for 'deoxyribonucleic acid'). Your DNA carries your genetic code: instructions for you to grow and function as a living person.





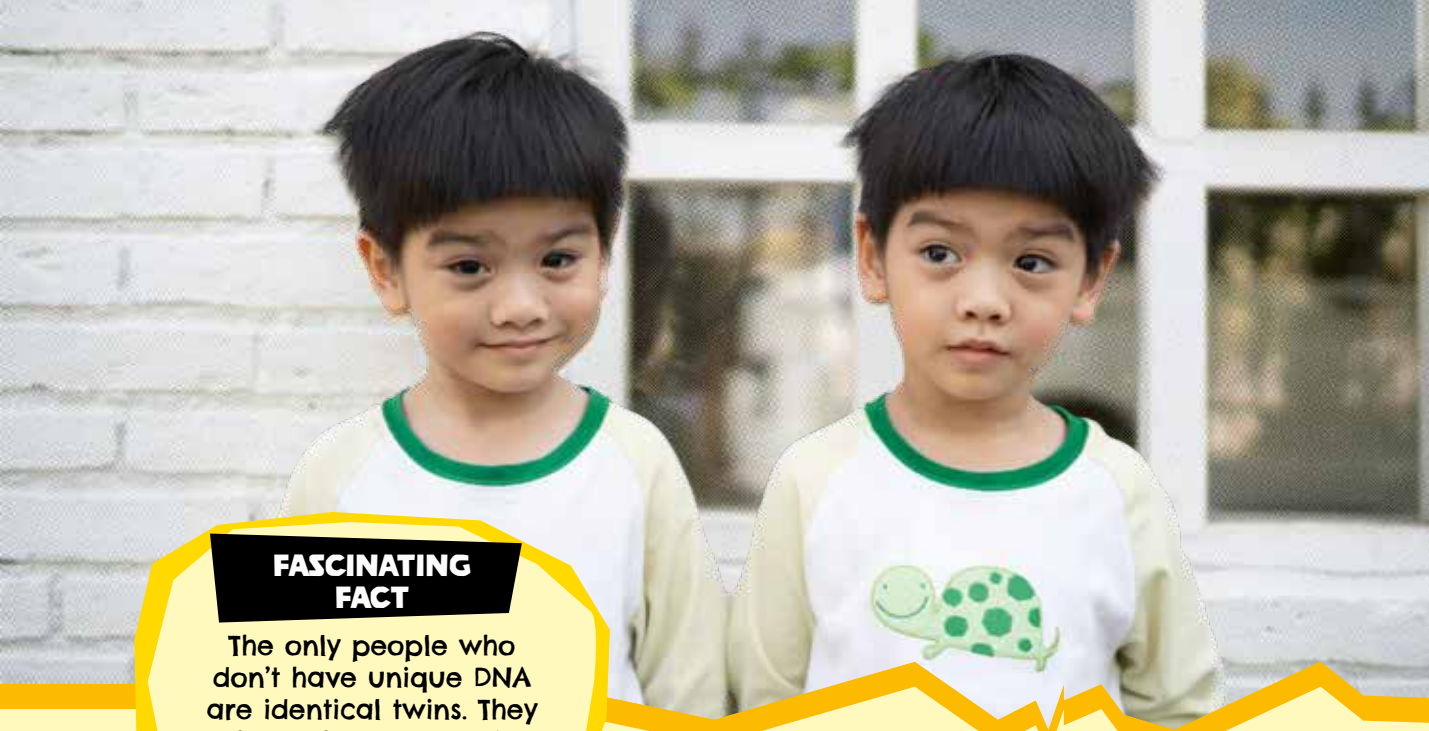
ZOOM IN

Two strands of DNA spiral around each other in what is called the double-helix structure.

Unique you

There are four different parts (or bases) to DNA. These combine in a series of pairs that is unique to each person. Each person has over three billion pairs inside them!





FASCINATING FACT

The only people who don't have unique DNA are identical twins. They have the same DNA as each other.

Genes

Short sections of DNA are called genes. These codes carry information on how your body looks and works, such as your eye colour, hair colour, ear shape, and even whether you can roll your tongue!

Passed down

Genes are passed down from your parents. You'll inherit half of them from your biological mother and half from your biological father. This is why you might notice that you share characteristics with each of them!

FAMOUS FIGURE

Rosalind Franklin



Rosalind Franklin (1920–1958) was a British chemist. She was one of the first people to discover the structure of DNA. Using X-rays, she helped reveal its double-helix shape.