

Collins



ALL ABOUT

THE HUMAN BODY



**PACKED WITH
FASCINATING
FACTS!**



The image features several stylized fingerprints in pink and white, arranged in a circular pattern around the central text. The fingerprints are rendered with thick, curved lines, giving them a graphic, almost abstract appearance. They are positioned at the top, bottom, and sides of the text, creating a frame-like effect.

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Published by Collins
An imprint of HarperCollinsPublishers
1 Robroyston Gate
Glasgow
G3 3 1JN

HarperCollinsPublishers
Macken House,
39/40 Mayor Street Upper,
Dublin 1, D01 C9W8, Ireland

collins.co.uk

First published 2026

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Production: Ilaria Rovera

Photo credits

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The contents of this publication are believed correct at the time of printing. Every care has been taken in the preparation of this book. However, the publisher can accept no responsibility for errors or omissions, changes in detail given or for any expense or loss thereby caused.

A catalogue record for this book is available from the British Library.

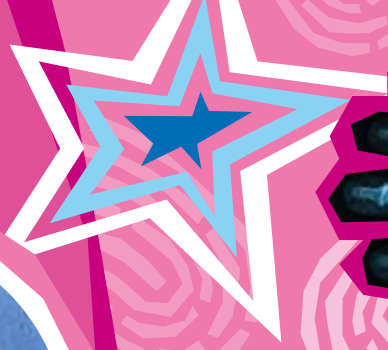
ISBN 9780008776190

Printed in India by Replika

10 9 8 7 6 5 4 3 2 1

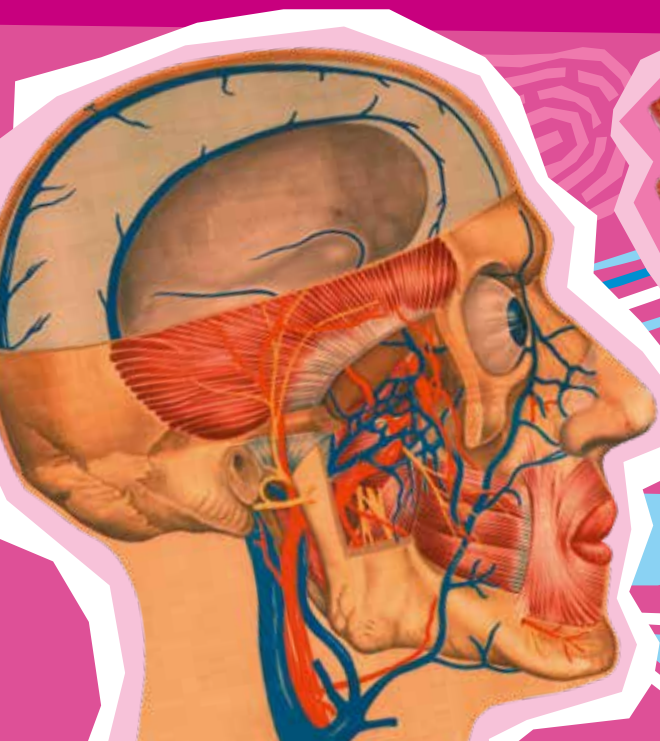


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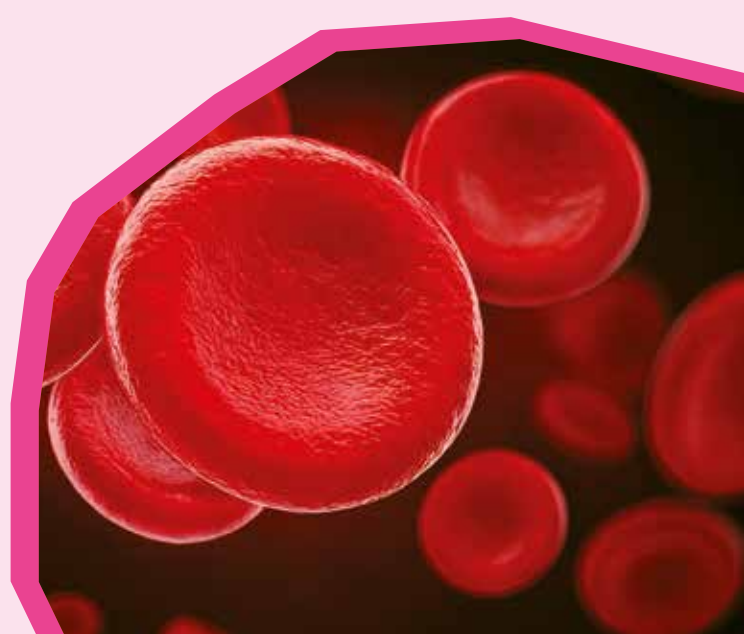
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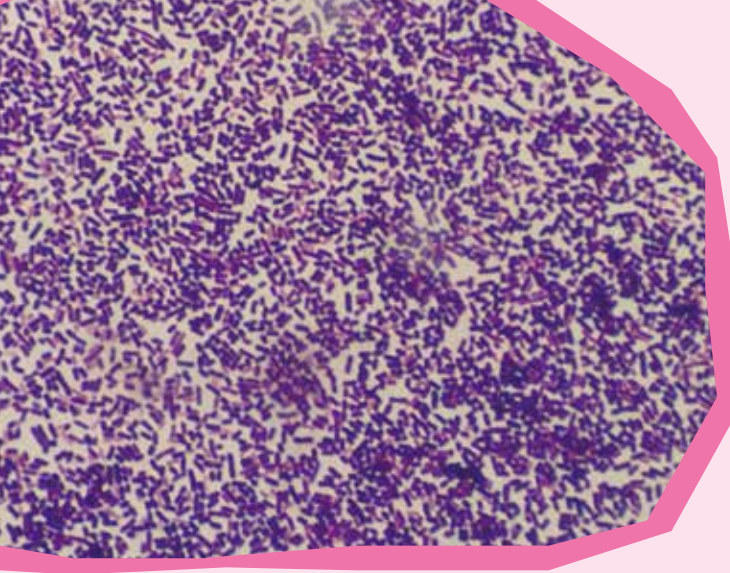
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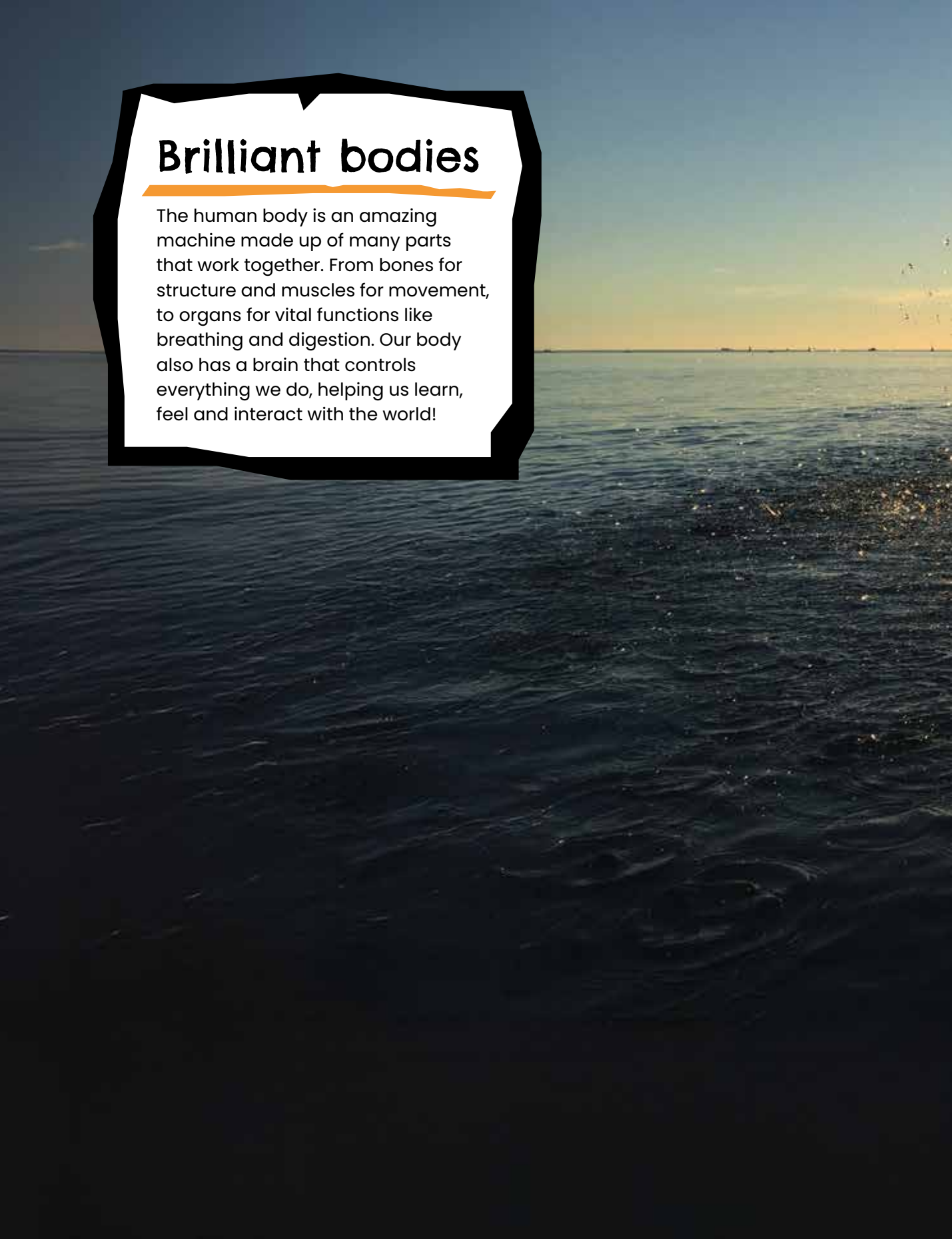
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Brilliant bodies

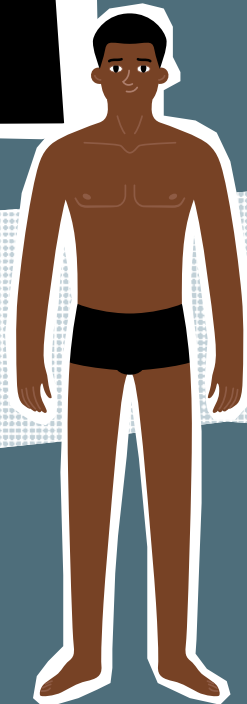
The background of the entire page is a photograph of a sunset or sunrise over a body of water. The sky is a gradient of blue and orange, with the sun low on the horizon. The water is dark blue with small, shimmering ripples. In the distance, a few small boats are visible on the horizon line. Overlaid on the left side of the image is a white, torn-edge-style text box with a black border. The title 'Brilliant bodies' is at the top of the box, underlined with a thick orange line. Below the title is a paragraph of text describing the human body as a machine.

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!

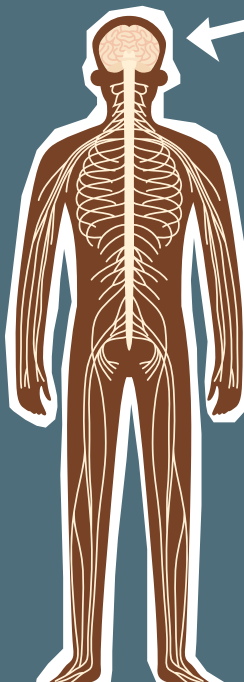
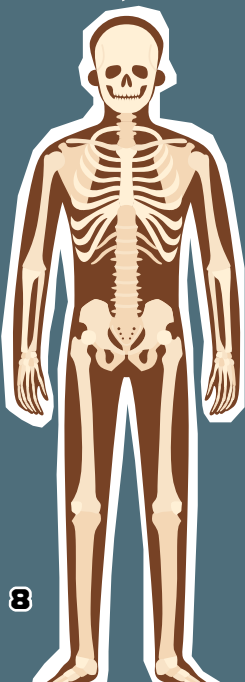


Bones & muscles

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

bones

muscles



Brains & nerves

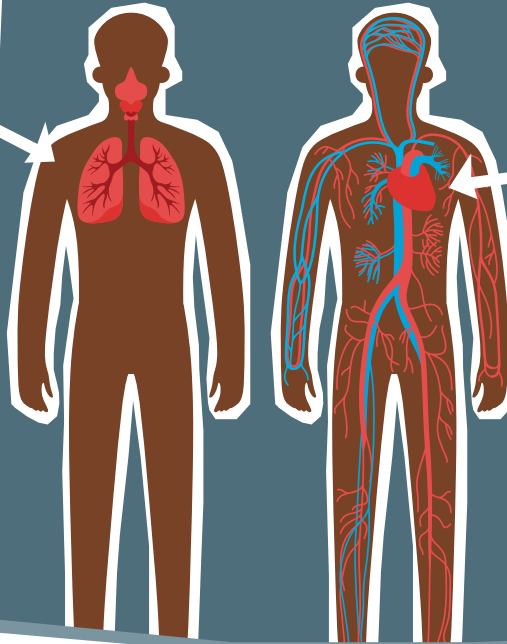
Your brain is the control centre of your body. It sends and receives messages throughout the body through a network of nerves in the nervous system.

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.

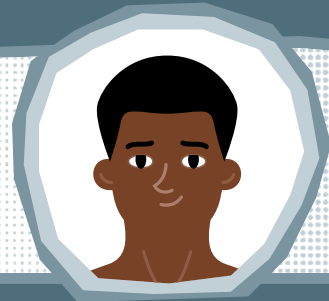


Heart and blood

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.

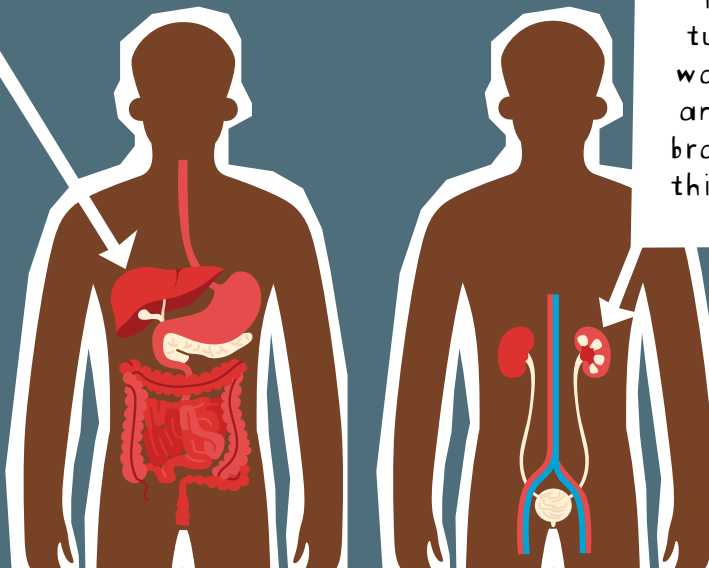
Five senses

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.



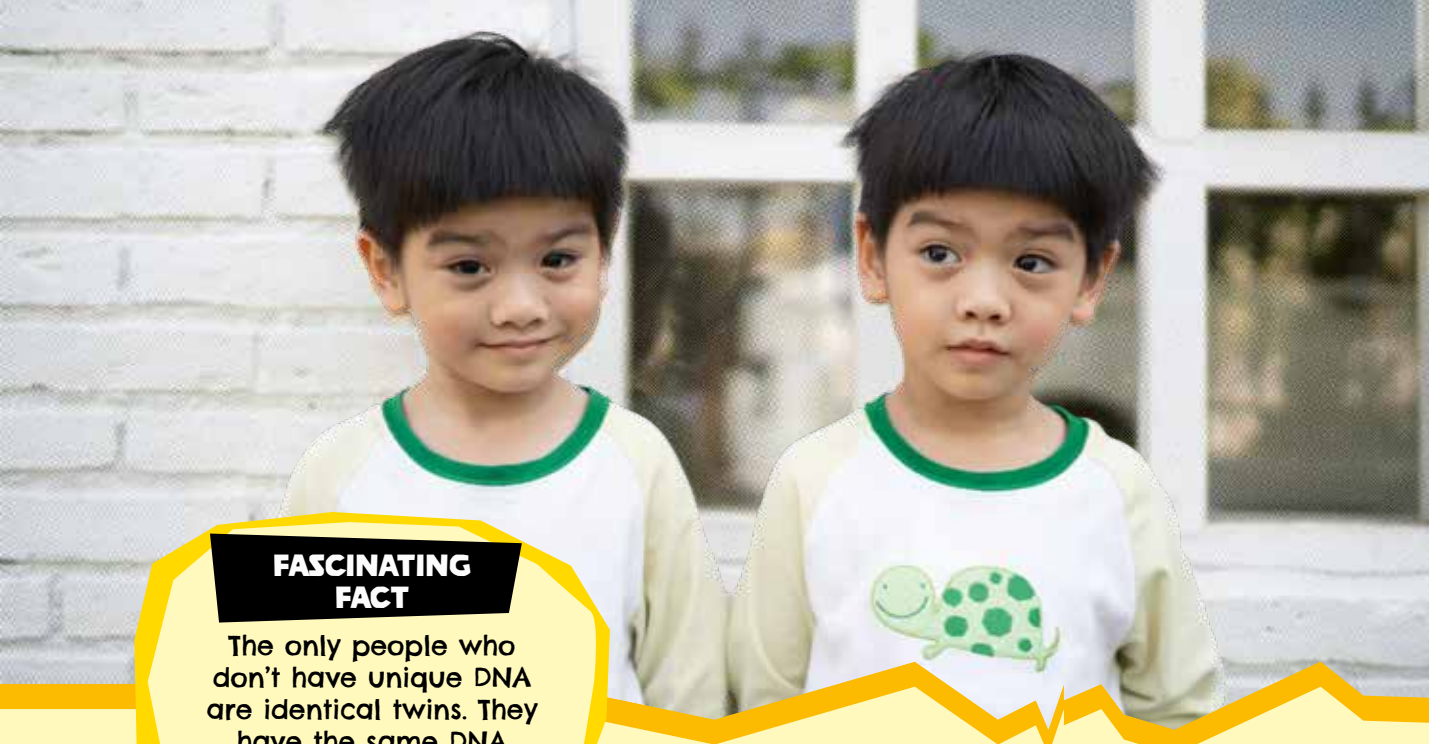
ZOOM IN

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.