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Opening extract from

The Amazing Human Body Detectives

Written by **Maggie Li**

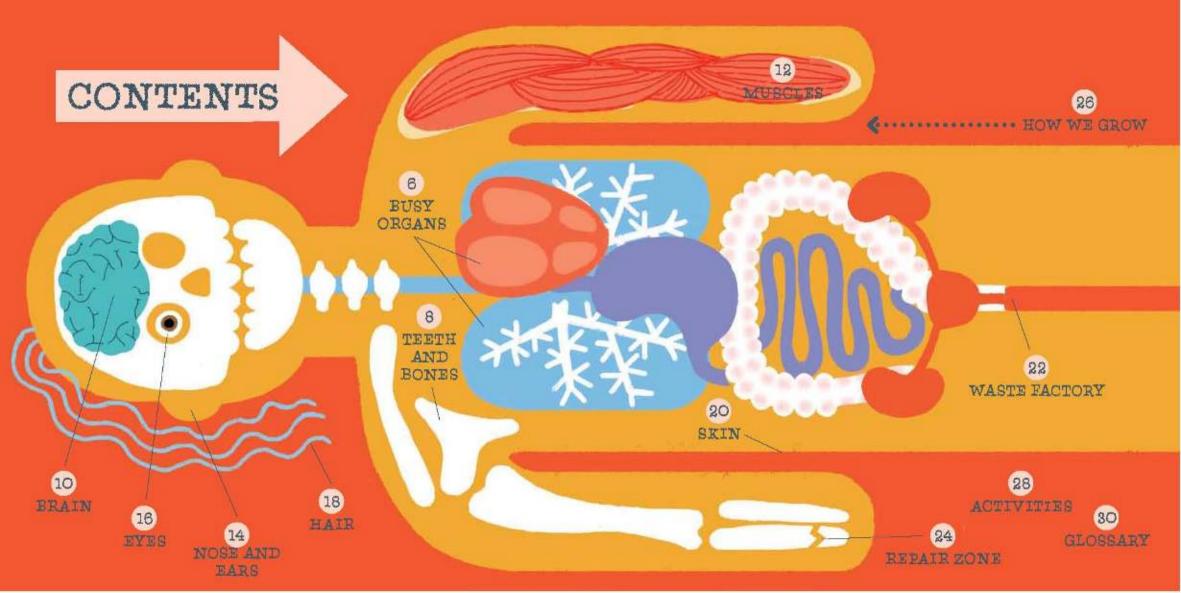
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BUSY ORGANS

Your body is made up of some very important organs that keep you alive by circulating blood, oxygen and waste products to the right places. You would not be able to live without your heart. lungs or kidneys, so they need looking after. You can do this by exercising and eating healthily.

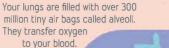


Your heart works hard and beats over 100,000 times 🛶 a day. 💣 🕨



The job of your kidneys is to filter all the nasties out of your blood into your wee. They work in a similar way to a sieve — like the ones you use when

vou're baking!



Your heart is the same

size as your fist.



BODY

where to find it. use your magnifying glass to find good pulse spots on the body!

Try to find your • own pulse and count it...

Your heart beats, or pulses, around 80-100 times a minute (normally). Try counting to 100 in a minute. Fast, isn't it?

Your lungs provide

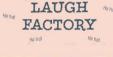
oxygen from the air

you breathe in. Your

heart then pumps

blood carrying oxygen

all around your body.



Laughing is good for your heart, so get giggling!



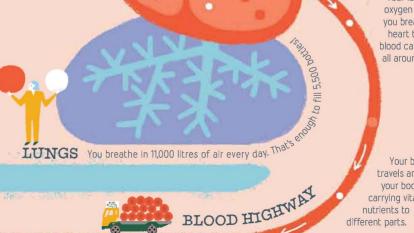
infection in the body. 37000

ZONE



A kidney bean!

KIDNEY



BLOOD HIGHWAY

Your blood travels around your body carrying vital

different parts.





Can you find the tanks of different blood cells being transported around the body?

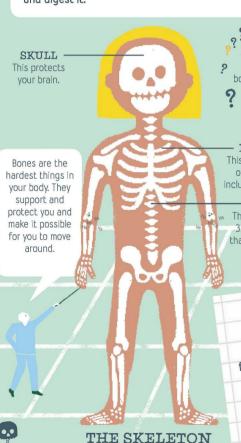
Use your magnifying glass to find the blood tanks!





TEETH AND BONES

Your bones support your body in a connecting framework called the skeleton. Your teeth help you cut and chew the food that you eat, making it easier for you to swallow and digest it.



DID YOU KNOW?

Your funny bone isn't a bone at all! It is a nerve that lives in your elbow.

> FUNNY BONES!

RIBCAGE ---This protects some Can you find of your organs the laughing including your heart. bones?

SPINE This is made up of 33 smaller bones that help you stand up straight.

eallne mini Eteitheiee

Drop a penny into a glass of fizzy drink and watch it change over a day or so. You can see that the drink removes a layer from the penny. Now, just think how important it is to brush your teeth at night after you have had a fizzy drinkl



Sometimes a tooth gets a little hole in it called a cavity. A trip to the dentist should sort it out: the hole can be filled with a special putty.

BODY

Look in a mirror, open your mouth wide and use vour magnifying glass to have a good look inside. What can you see? Can you see the surface of your teeth? Is it smooth or bumpy?



Children have 20 baby teeth

which fall out when they are

about five or six years old. They

are replaced by 32 adult teeth.

MARSANO

of a

BRAIN

The brain is your body's central command station — like a computer it stores and processes information. It helps you to talk, to work out the answers to maths questions and, most importantly it tells the rest of your body what to do.

A THORIES A Well, would you like to have a sandwich for lunch or a bowl of soup? That's a decision for you to make!

> Use vour magnifying glass to see what is happening in the brain.

NTAL

This is the hub of

the brain where

you think and make

Your brain is like a library that stores all your experiences and knowledge.

> of it sends signals to your brain that can make you feel



Here is where your brain processes numbers, letters



AMAZING NERVES!

If you stepped on a pin, nerves in your skin would detect the pain and send signals to your brain at lightening speed telling you to remove





This part of your brain makes of what you see, including reco



DREAMS!

When you fall asleep your body is resting but your brain doesn't switch off. The parts linked to imagination and creativity remain active.











MUSCLES

Without muscles, we couldn't move at

Muscles are not just about strength. You need them to move every part of your body from your toes to your face. Muscles work by transferring energy into movement. We usually think of muscles as the ones we can see in our arms and legs. In fact, they are everywhere in your body, from your eyes to your internal organs.

MIGHTY MUSCLE FACT FILE

SMALL BUT MIGHTY the strongest muscles are the ones surrounding your eyes.

BUSIEST MUSCLE is somewhere on this page... Can you find it?

(ooh, I say!)

LONGEST MUSCLE runs from the outside of the hip down to the inside of the knee

> LARGEST MUSCLE is actually in your bottom!

Can you guess how many face muscles it takes to frown?

magnifying glass

to see which sports are stored

in this person's

Muscle memory is created by practising an action

Nuscle memory is created by practising an action over again. The more a muscle is used the over and more precise it becomes. So practice over and more precise it becomes.

over and over again. The more a muscle is used the over and more precise it becomes. So practice over and more precise it becomes as sport!

Can you guess

how many face

muscles it takes

The ones in your arms are called skeletal muscles. They help you to move and you control them with your brain.

Try moving very slowly and you may be able to feel different

different muscles doing their job. Think about every

part of your body that needs muscles to move.

Muscles are a lot like elastic. Muscles are a lot like elastic.

They are made of fibres that stretch
and relax to help you move.

SMALLEST

your ear.

MUSCLE

is in

Cardiac muscles (the ones in your (heart) are called twitch muscles because they work without you knowing.

Smooth muscles are found around organs such as your bladder, stomach and airways. They help organs to do their jobs, which often require movement.



SKELETAL MUSCLES





So. it's easier to