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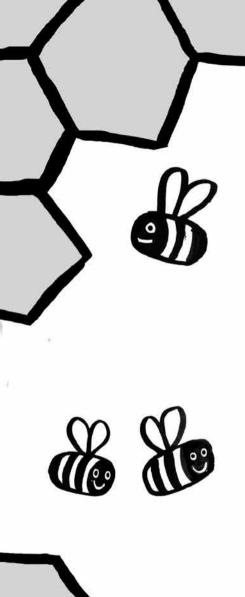
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DR EMILY GROSSMAN

WHIZZING

WORLD







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Our world is amazing!

Which way is a dog more likely to face while weeing?

Which creature would take the longest amount of time to wee?

Where would you find the most germs?

Every time you take a sip of 40 water, it's pretty likely that you're drinking what?

How much does the average 52 cloud weigh?

10 An elephant's poo can be 56 used for what?

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14

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- Which animal only poos once a week?
- How much of your DNA do 74 you share with a banana?
- You will probably make better decisions when you ...

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OUR WORLD is AMAZING!

Hi, I'm Dr Emily. You might remember me from my Brainfizzing Facts book. In which case, welcome back! Or we might be meeting for the first time - in which case, hello!

Before we start, there's one important thing you need to know about me. I ask a LOT of questions. And I love figuring stuff out and finding things out about the world. My



In this book I'll be **sharing** with you some of my **favourite things** about **our planet**, and explaining WHY they happen. But first I'll be asking YOU **questions** and asking you to try and **figure out** the answers for yourself. So give them a go. I'll always give you **four options** to choose from as the answer. If you don't **know** the right answer straight away, don't worry - **mistakes** make your **brain spark** and that's how you **learn**. Just start by **figuring out** if there are any answers that you know **CAN'T** be true, and **Why**. And then see if you can think of a **sensible** reason why one of the others **MIGHT BE**. And you may well be **right**.

And remember, in science there's really no such thing as a **stupid question**. Or indeed a **wrong answer**. Truly. Wrong answers are just the **way** that we get to the **right one**.





Some of the facts in this book are totally **random**. They're **weird** things about the world that I've **discovered** or **read about** in my time as a **scientist**. Some might make you **laugh**. Some might **shock** you. And some are downright **gross**.

But **some** of them are about the things that **humans** have been doing to our **planet**, and about how our planet is **changing**. They are about how the Earth is **heating up** and how our planet's **land** and **natural resources** are being used up.

D



And about how lots of animals, plants and humans are suffering as a result.

These parts of the book might make you a bit sad. Or scared. Or anxious. Or angry. But don't worry, I'll be right there with you and I'll be giving you lots of ideas as we go along as to small things that you and your family can do to help. Plus, I'll be sharing lots of inspiring stories about exciting things that are going on in the world today that will give you hope and show you that the world can be a better place. If we all work together to make it so.

So, are you **ready** for the first question? Great. Then let's get **started**.

13

DR EMILY XX



But have you ever stopped to notice which way your furry friend usually faces when she is, err, relieving herself? I don't suppose you have. I mean, why on Earth would you?

Well, this is exactly what a **strange** team of scientists in Germany and the Czech Republic did. For TWO YEARS. That's quite a **commitment**.

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The team monitored a group of 70 dogs from 37 different breeds. Every time one went for a WEE or a POO (the dogs, not the scientists) they made a note as to which way the dog was standing. Well, probably not EVERY time. I'm sure they didn't get up in the night to wee-watch. But between them, the scientists recorded a grand total of 1,893 poos and 5,582 wees.



When the scientists compared notes, they noticed something rather strange. It seemed



that the dogs were far more likely to do their business while facing either directly north or **south**. Weird or what?

THE ANSWER is D A DOG IS MORE LIKELY TO FACE TOWARDS THE NORTH OR SOUTH POLE WHILE WEEING.



19

be facing **directly** towards the **north** or **south**.

So, next time you're out for a walk and you **lose your way**, just wait for your doggy companion to **cock his leg**, and then follow his **nose**.

It is thought that our doggy friends might have their own sort of internal compass that enables them to sense the Earth's magnetic field. How cool is that?

Dogs are not the **only** animals who are able to do this. Next time you come across **cows** grazing in a field, **deer** standing in a line or **ducks** landing on a lake, whip out your **compass** ... you might be rather **surprised** to discover that they will probably

ginormous **bar magnet** running right through the middle of it.

Sailors use the Earth's magnetic field to work out which way they are going when they are lost at sea. You see, the needle of a compass will always point towards the North Pole. And by working out which way is north, and roughly where they are on a map, sailors can figure out which way to sail to get home.

But why do dogs do this? Sounds barking mad to me.

18

Well, the truth is that no one really knows. But it would appear that dogs are pretty good at **sensing** the **Earth's magnetic field**. This is an **invisible force field** that radiates out from the Earth's **core** and **surrounds** the planet, giving rise to the **North and South Poles**. It's as if the Earth has one Speaking of **cocked legs**, did you know that it is usually only **male dogs** that raise their back leg in the air when they wee? They do this funny manoeuvre to **mark their territory**. The **higher** they manage to spray their yellow **calling-card** onto the nearest **tree** or **lamp-post**, the more likely it is that the **stinky scent** will be caught by the **wind** and travel **further away**, alerting nearby **canine competitors** to their presence.

> Some animal experts think that dogs try to raise their leg as **high** as possible so they can **pretend** to the next sniffers who happen to pass by that they are **bigger** and **more intimidating** than they actually are. This might explain why you sometimes see a tiny little **sausage dog** doing a kind of **doggy handstand**, spraying his wee **all the way** up a lamp-post.

> > I MAY BE SMALL BUT I SURE (AN WEE!

Some wild dogs in Africa have taken this a step further. To appear as big as they can be, they try to run up tree trunks WHILE they are weeing! Maybe they hope that the next doggy visitor will think that there's a ginormous treeweeing beast in the area and run for the hills in terror.

I wonder how long it would take this huge beast to do a wee? Ages, probably. Certainly far longer than it would take you or me to wee, right? Not necessarily ...