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Opening extract from The Big Green Book

Written by **Fred Pearce**

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Earth is Just Right

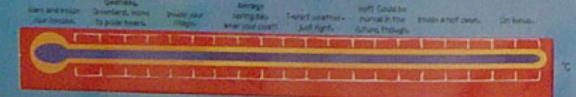
Our planet, the Earth, is one of . . eight in our solar system, but the Earth is the only one that is home to living things. Why? Because the other planets are either too hot or too cold.

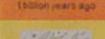


The Earth is just the right distance from the heat of the Sun, which keeps us warm (but not too warm). But there is something else - wrapped round our planet is an invisible blanket of gases that we call the atmosphere. It contains gases like carbon dioxide that trap the sun's heat. Just enough. Like the blankets on a bed, these gases keep the air warm enough for us and the rest of nature to survive even at night, when the Sun isn't shining.

Some people call Earth the "Goldilocks planet", because like the porridge in the story of Goldilocks and the Three Bears, its temperature is "just right". This is why there has been life on Earth for a billion years.











Earth is Just Right

Our planet, the Earth, is one of eight in our solar system, but the Earth is the only one that is home to living things. Why? Because the other planets are either too hot or too cold.



How come we have just the right number of blankets? It turns out that the living things on Earth – like the trees in the forests, the bugs in the soil and the creatures in the oceans – make these gases and control how hot our planet is.

They keep the temperature

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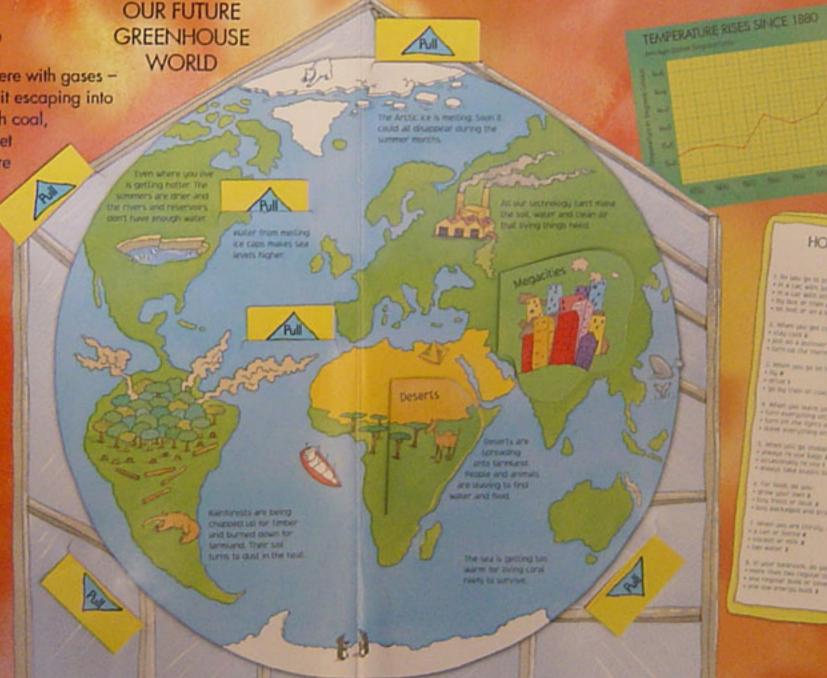
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Turning up the Heat

Our planet is getting hotter! Humans are filling the atmosphere with gases called greenhouse gases - that trap the Sun's heat and stop it escaping into space. Pollution, rainforest destruction and burning too much coal, oil and gas are making our planet's heat-trapping blanket get thicker. Nature spent millions of years getting the temperature "Just right", but now humans are messing it up.









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is getting hotter The summers are drier and the rivers and reservoirs don't have enough water

my beard

All our technology can't make the soil, water and clean air that living things need.

The Arctic ice is melting. Soon it

could all disappear during the

summer months.

green fields when

I was born

Deserts are spreacing onto tarmiano. People and animals are leaving to find water and loop.

The sea is getting too warm for living coral reels to survive.

SOME LIKE IT HOT But most animals don't.

HOW BIG IS YOUR "CARBON FOOTPRINT"? What can you do to help stop climate change?

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