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wild & wacky
facts & photos!

Contents

● CHAPTER 1
AMAZING EARTH 8

- 10 lightning-quick facts about Lightning . . . 10
- See the wood for the trees 12
- A door to Hell 14
- There's weird in them there hills 16
- Strange rocks 18
- Ring of fire. 20
- A humungous fungus 22



● CHAPTER 2
STEP BACK IN TIME 24

- From Russia, with weird 26
- Pyramids everywhere!. 28
- The 'moose' that survived a shooting 30
- A host of hoaxes 32
- Who would have thought that. 34
- The pig war and other bizarre battles 36
- Marvels of the Mayans. 38

● CHAPTER 3
INCREDIBLE CREATURES 40

- Cockatoo dance-off 42
- Disgusting defences. 44
- A flock of facts 46
- Our mutual friends 48
- Protect the pangolins. 50
- A helping paw!. 52
- These creatures really suck...blood! 54
- Hide and seek. 56
- Brilliantly black...Wonderfully white 58



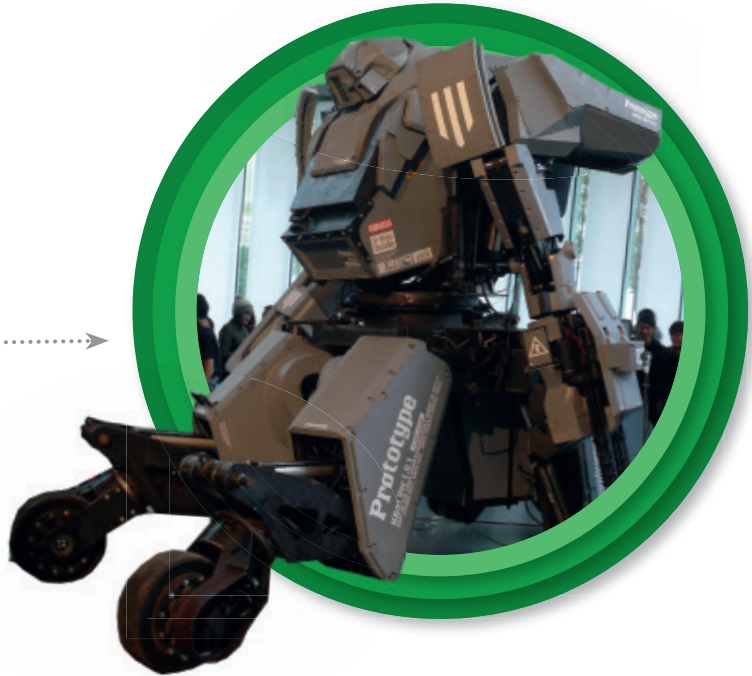
● CHAPTER 4
SUPER SCIENCE AND TECHNOLOGY 60

- Inventions. 62
- World wide web. 64
- You, robot. 66
- Cloning genetics and Medical weirdness. . . 68
- Environmental oddities. 70
- Green the Sahara 72
- Gaming 74
- Amazing molecules and chemical reactions . 76
- How does the cola and chewy mint fountain work?. 78
- Pioneering minds 80



● CHAPTER 6
GET A MOVE ON! 100

- Radical roads and streets 102
- Catch a cab!. 104
- Could you outrun a horse? 106
- Left behind in London 108
- Putting the fun in funicular 110
- There's snow stopping me!. 112
- Secretly searching. 114
- Tantalising tunnels. 116



● CHAPTER 5
MINDBOGGLING BUILDINGS 82

- Lighting the path to safety 84
- Secrets within 86
- Sky high worship. 88
- What's inside Winchester house? 90
- 10 of the most visited...every year! 92
- They sell what? 94
- Brilliant bridges 96
- Built in refrigeration 98



● CHAPTER 7
OUT OF THIS WORLD 118

- Animal Astronauts 120
- Floating in a tin can 122
- The sunny system 124
- Fly me to the moon (and back) 126
- Cool cosmos! 128
- Star makers 130

● CHAPTER 8
SPORTING SUPERSTARS 132

1904 Olympic marathon	134
Going the distance	136
Winter sports	138
Reach for the sky	140
Martial arts	142
Ball crazy	144



● CHAPTER 9
COOLLY CREATIVE 146

Strangest sculptures	148
Weird words	150
Instrumental oddities	152
Unusual art	154
But can you hum it?	156
Fun festivals	158
Peculiar playhouses	160
Check mate	162
Gardener's world	164



● CHAPTER 10
GRUB'S UP! 166

Glorious gum!	168
The nation's favourite...Fish and chips.	170
Juicy fruits	172
Drink up	174
Holiday season	176
Super strawberries	178

● CHAPTER 11
THE HUMAN BODY 180

Big babies	182
Organ players	184
These facts will blow your brain.	186
Face facts	188
From me to you.	190
Skin deep	192



● CHAPTER 13
EVERYTHING ON THE ENVIRONMENT 214

Cruisin' for pollutin'	216
We have alternatives!	218
Polluted planet	220
Ice, ice, maybe.	222
Plants and trees	224
Where have all the animals gone?	226



● CHAPTER 12
GRUESOMELY GROSS 333

Poo!	196
Bogey facts	198
Foul food	200
Medical procedures	202
Fairy tales and folklore	204
Odd jobs	206
All about you	208
Gross creatures.	210
Fear and disgust	212



● CHAPTER 14
BY THE NUMBERS 228

Out for the count	230
Countdown to launch.	232
Erno Rubik and the magic cube	234
All about animals.	236
Internet in numbers	238
Stay tuned for music by numbers	240
The zero hero.	242

INDEX.	244
IMAGE CREDITS.	256

Amazing EARTH

CHAPTER 1

The word
'VOLCANO' comes
from the **ROMAN** name
'VULCAN'. Vulcan was
the **ROMAN GOD
OF FIRE.**

Read more about
volcanoes on page 20.

10 Lightning-quick Facts about Lightning

As well as **TRAVELLING DOWN** to Earth from clouds, lightning also travels up from the ground to the sky.

The air around lightning expands rapidly due to the extremely high temperature, creating an explosive **SHOCKWAVE** that we hear as thunder.

LIGHTNING FLASHES at the speed of light but strikes at less than half that speed – 270,000 miles per hour. That's still quick enough to reach the moon in under an hour.

There are many different types of lightning, including sheet, ball and sprite. There is even a phenomenon known as **'THUNDERSNOW'** where lightning can form in snow clouds!

Nine out of ten people **STRUCK** by lightning survive.

LIGHTNING STRIKES Earth's surface at around 3 million times a day – that's nearly 44 times every second!

A **BOLT OF LIGHTNING** is about five times hotter than the surface of the Sun but is only about as thick as your thumb.

FULGURITE is a form of glass that is made when lightning strikes sand.

In the right – or rather, the wrong – conditions, helicopters can actually cause **LIGHTNING STRIKES!**

LIGHTNING has been observed on two other planets in the solar system – Jupiter and Saturn.

See the Wood FOR THE TREES



DYNAMITE TREE

The sandbox tree is one of the most dangerous trees in the world. It is covered in thorns, is poisonous and has exploding fruit. The sap of the sandbox tree can cause blindness. The fruit of the sandbox tree is poisonous and causes vomiting and diarrhoea. The fruits also explode, sending seeds flying through the air at over 240 kilometres per hour.

THE WOOD-WIDE-WEB

Before trees evolved, the surface of Earth was covered in huge mushrooms. They could reach 8 metres tall, which is about the same height as a house! Mushrooms are vital for trees and forests to grow. Beneath every forest there is a vast hidden network of pale thread-like structures called mycelia – these are all parts of the mushroom or fungus that you don't see. They help to provide trees with the nutrients they need and transport nutrients over long distances.



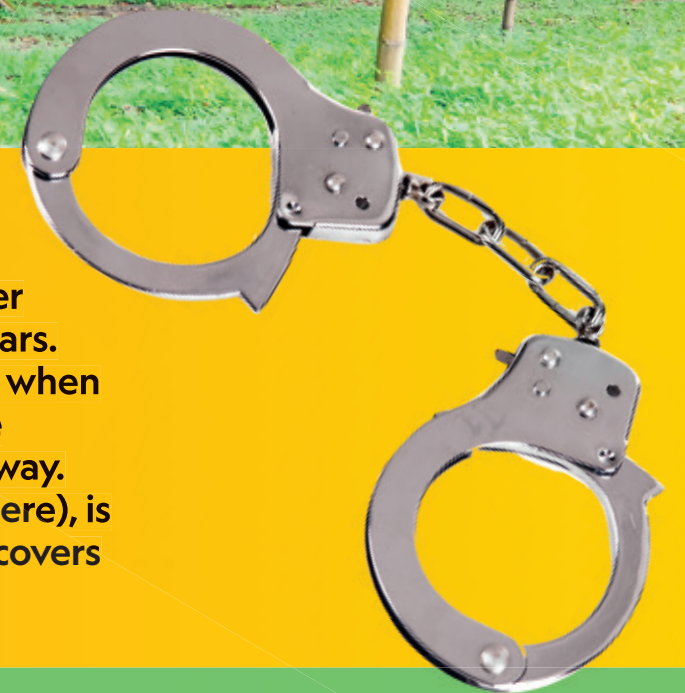
Totally WEIRD!

Over 2,000 years ago, during a battle a forest was used to crush an advancing Roman army. Literally. Trees in a forest in northern Italy were cut so that just a simple push would cause them to topple like dominoes. When the army marched through the forest, the trees were pushed onto them, leaving only 10 survivors.



TREE IN CUSTODY

A Banyan tree in Pakistan has been under arrest (and held in chains) for over 120 years. The tree was placed under arrest in 1898, when a British Army officer thought he saw the tree moving towards him in a suspicious way. Another Banyan tree, in India (pictured here), is the widest tree in the world – its canopy covers more area than two rugby pitches!



A door to HELL

THIS FIERY HOLE IN THE GROUND IS THE DARVAZA CRATER.

It is a 30-metre-deep pit that has been burning for over 40 years. It is located in a natural gas field in the country of Turkmenistan in central Asia.

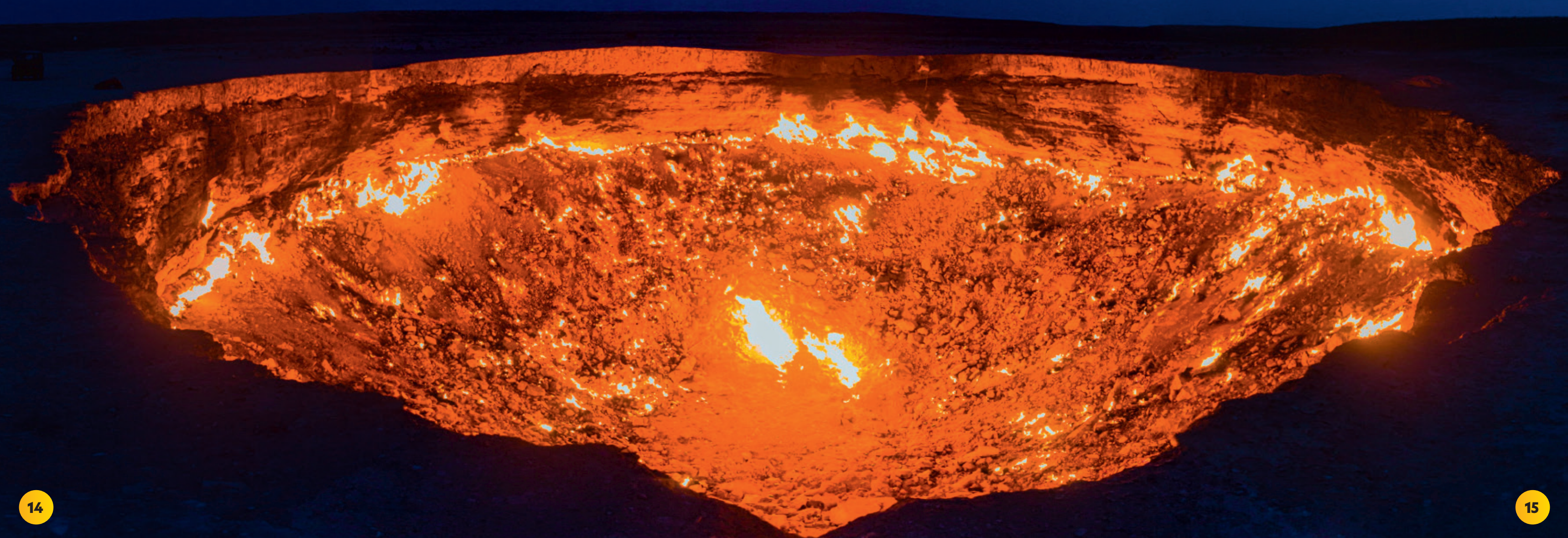
In the early 1970s, an oil rig fell into a hole in a natural gas field. It is thought that geologists decided to sort the problem out by setting the rig on fire. They thought that the natural gas in the hole would burn itself out very quickly. They were wrong!

The crater is known as the 'Door to Hell' and doesn't look like it could have anything living in it. Remarkably, scientists investigated the crater and found a number of extremophile microorganisms living in the depths of the fiery pit – these are creatures that can live in extreme environments.

Scientists study extremophiles because it is amazing that life can be found in such harsh environments. The existence of extremophiles suggests that living beings could be found elsewhere in the solar system – in places we never thought could sustain life.

Did you Know

You may have noticed that there are a number of countries in the world whose name ends in '**stan**'. There are seven of these countries in total: Pakistan, Uzbekistan, Turkmenistan, Kyrgyzstan, Tajikistan, Kazakhstan and Afghanistan. The '**stan**' in each of these names comes from the **Persian word** for 'place of' or 'country'. Uzbekistan is the country of the Uzbek people; Tajikistan is the country of the Tajik people.



LONG WAY DOWN...

Mount Thor in Canada, named after the Norse god of thunder, features the cliff face with the highest vertical drop in the world. The cliff is over 1 kilometre high (1,250 metres to be exact). It is actually steeper than vertical as it has a 105° overhang.

A LAND OF CHOCOLATE

These cone-shaped hills in the Philippines are known as the Chocolate Hills. They get their name from the plants that live on them, which turn a chocolatey-brown colour in the dry season. Legend has it that they were made by giants, but scientists think that they were made by coral being eroded by rainwater over thousands of years.



THERE'S WEIRD IN THEM THERE HILLS

CLOSEST TO THE MOON

Standing on top of Mount Everest, you'd be forgiven for thinking that you were on top of the world. And you would be higher than nearly everyone, but not people who had climbed to the summit of Mount Chimborazo, a volcanic mountain in Ecuador. This is because Earth is not a perfect sphere - it bulges out in the middle, meaning that people on the summit of Mount Chimborazo are actually closer to the Moon than the frostbitten climbers on Everest!



... AND ROLL BACK UP?

Some hills in the world seem to defy the laws of gravity. At places such as the appropriately named 'Confusion Hill' in California, 'Magnetic Hill' in Canada or the 'Electric Brae' in Scotland, cars appear to roll up hill!

