





#### A TEMPLAR BOOK

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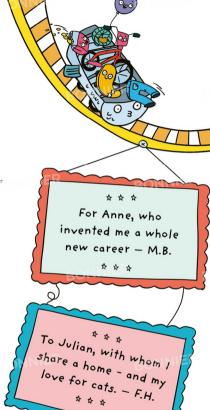
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THE WORLD'S FIRST

ROLLER

COASTER

INVENTIONS

MIKE BARFIELD



FRANZISKA HÖLLBACHER



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www.

DIÉBÉDO

KÉRÉ

\*14 \*

PERCY SPENCER

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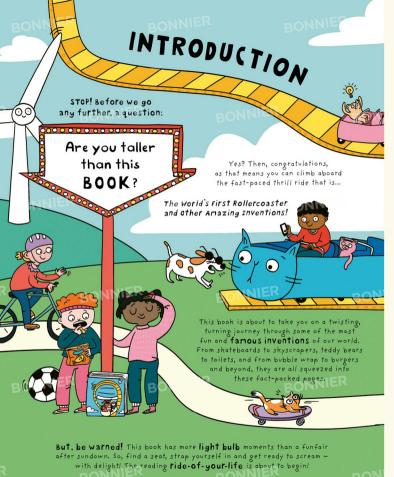
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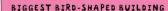


The world is bursting with buildings, and no wonder with a population of about eight billion people! In this chapter, we reveal a selection of striking structures that are record-makers and record-breakers, as well as some that are just plain fun!

First, let's build the excitement with four fantastic facts:







Scotland, is over 5.000 years old! It lacks a roof but still has a lovely view of the sea.



Ashgabat International Airport in Turkmenistan, Asia, is built in the form Rof a giant **white falcon** swooping low.

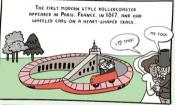
#### FIRST BUILD ON MINECRAFT



# ROLLERCOASTER



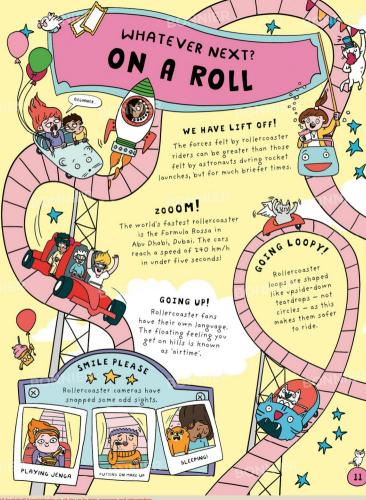














### SKYSCRAPER



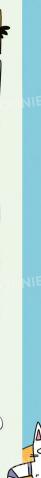






THE TOP STILL SWAYS BY UP

TO THO METRES IN A GALE





SIGH



# TO STATE OF THE PARTY OF THE PA

### SUPERMARKET

























#### MIGHTY MALL

The world's most mossive mall is Iran Mall in the Iranian capital of Tehran. It has shops on seven floors covering an area greater than 270 football pitches!

### HOT STUFF!

Volcano Buono Mall near Naples, Italy, is inside a giant grass-covered mound shaped like a shallow volcano. Its name means 'Good volcano', unlike nearby Mount Vesuvius, a real volcano that once destroyed the Roman city of Pompeii and all its shops and stalls.





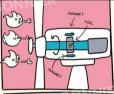
### WIND TURBINE







WIND HITTING MY BLADES PUSHES THEM ROUND AND TURNS A GIANT WIRE COIL INSIDE SOME POWERFUL MAGNETS.





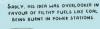










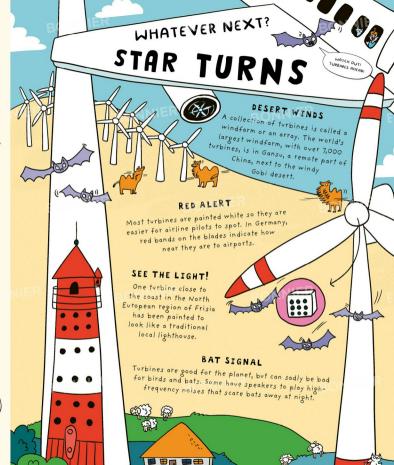














The Upside-Down House in Szymbark, Poland, is a top tourist attraction. You enter through a window in the roof!

elephant kiss 6



This home in Miziara, Lebanon, is a 'Lucy' is a giant concrete elephant in full-sized replica of an Airbus A380, New Jersey, USA, that doubles as a the world's largest passenger plane. Do you think the idea will take off? hotel. Don't forget to take a trunk!



A house in Oxford, England, has a giant fibreglass shark wedged in its roof!



The Haines Shoe House in Pennsylvania,

USA, was built by a shoe salesman to

advertise footwear. Wipe your feet

before entering!

The 'Toilet House' in Suwon, South Korea, is now a museum all about toilets and has a giant, golden sculpture of a poo outside. Make sure you wash your hands!



Humans have been on the move for the past 200,000 years: first on foot, then by water, horses, wheels and wings. In this chapter, we have the stories behind some of the cleanest, preenest ways to travel, and much more. So, get a move on! Let's start with some 'safety first' facts!



Introduced in Britain in 1865, motor car drivers had to keep below 1.6 km/h in towns and have someone walk slowly in front with a red flap!

#### FIRST CHILD SAFETY SEAT

The modern-style car safety seat was invented in 1962 by Jean 'Jerry' Ames, a working British mum who wanted to keep her young son safe.

#### MOST CRASHED DRIVER

The crash test dummy known as 'Hybrid III' was introduced in 1976. Used by car makers across the world, if 'H III' could CRASH! stand up he would be

1.75 metres tall.

#### ODDEST SAFETY MEASURE

It may sound scary, but most modern I DON'T LIKE cars contain high explosives! They are detonated by collisions to produce the nitrogen gas that inflates airbags.

13.09.2023



### BICYCLE







HI! I'M A BMX BIKE.

JOIN ME FOR SOME GIANT LEAPS ...

IN BICYCLE HISTORY!



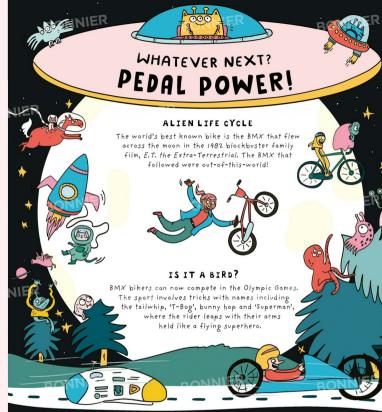












#### SPEEDY SEB

Dutch athlete Sebastiaan Bowier hit a world record cycling speed of 133 km/h in 2013 by pedalling whilst lying down inside a giant, streamlined shell.

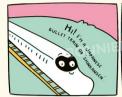
#### VERY HANDY!

Handcycles are three-wheeled bikes for people who use their arms to pedal. Amazingly, the earliest-known example dates back to 1655!



### BULLET TRAIN































A special banana-coloured bullet train called 'Dr Yellow' travels the tracks making safety checks. People say it is pood luck to spot it!



Hungry bullet train travellers can enjoy ekiben tasty snack boxes in the shape of Dr Yellow!

### HELLO, LO!

SUPER-FAST FOOD

The 'LO' (L Zero) is an experimental shinkansen that rides on magnets rather than rails. In 2015, it set a world record train speed of 603 km/h! L.O.L!



### HELLO, KITTY!

Though most bullet trains are largely white, some rail regions have their own special colours. One super-cute shinkansen was decorated in pink and white for the Japanese cartoon character, Hello Kitty!





### ELECTRIC VEHICLE



HEH, HEH! WELCOME TO MY WORLD OF BARKNESS WHERE I WIELD TOTAL POWER!





THEN, IN 1888, GERMAN ANDREAS FLOCKEN BUILT THE FIRST REAL FOUR-WHEELED ELECTRIC CARRIAGE ...





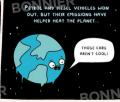
OF COURSE, MOST LAND
VEHICLES USED ANOTHER
FORM OF HORSEPOLIER...
THE ORIGINAL
AND BEST





BUT US MOTOR MOGUL HENRY FORD THREW A SPANNER IN THE HORKS IN 1908 WITH HIS MUCH CHEAPER, PETROL-BRIVEN MODEL T' CAR...







# CURRENT AFFAIRS

NIER

#### PARKING SPACE

Tesla is the world's best-selling brand of EV. In 2018, Tesla owner Elon Musk fired his own electric sportscar into an endless orbit around the sun as a test for the space rockets he also makes. FULL MOON

Fancy your own EV? There are three going spare on the moon! Nicknamed 'moon buggies', the Lunar Roving Vehicles were left behind by the USA's 'Apollo' missions of the early 1970s.



For most of the last century, the majority of the world's EVs were milk floats - slow-moving electric vans used for delivering bottled milk. Their quiet motors didn't disturb sleeping customers early in the morning. Shhh!

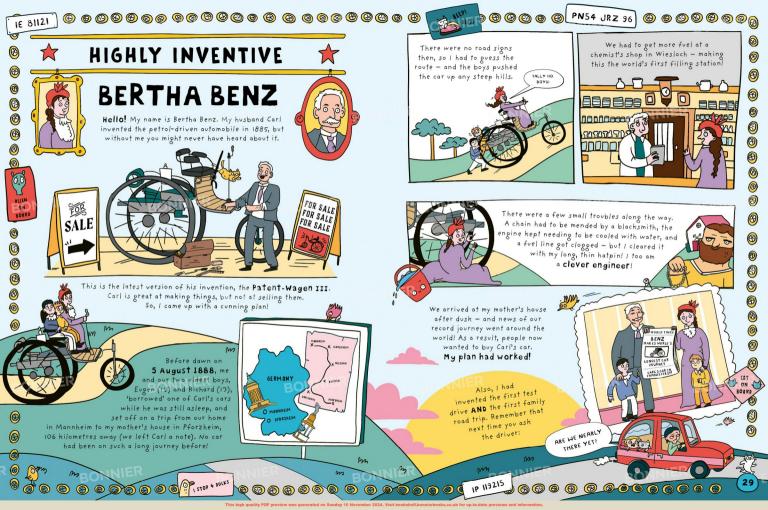
BONNIER

#### LIGHTNING FAST

The world's fastest electric vehicle is the Buckeye Bullet 2, built by students of Ohio State University. In 2016, it has 495 km/h — about five times the local speed limit for cars!









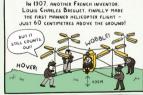
### DRONE









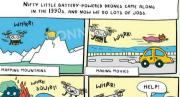






AFTERWARDS, THE WORLD BUILT BIGGER AND BETTER HELICOPTERS.





CIGHTING CIRES









The campfire was probably the first great household invention, back when caves were all the rage. Today, microwave overs can heat food in a flash, but you don't get people or pets cosying up to them. In this chapter, we consider some common home comforts — including those for our furry, four-legged friends! But first, let's take a look at the huge variety of devices in our households — some are the stuff of science fiction!

#### MOST INFURIATED INVENTOR

In 1886, Josephine Cochrane of Illinois, USA, was driven to invent a dishwasher that spray-cleaned plates with water because she was sick of doing it.



#### MOST UNKNOWN INVENTOR E

Fancy giving the carpets a quick 'Spangler'?
The vacuum cleaner was actually invented in
1907 by James Spangler, who sold his idea
to William Henry Hoover.



#### MOST GUARDED HOME



Marie Van Brittan Brown invented the first home Security system, with cameras inside and out, as she didn't enjoy coming home alone at night.

#### MOST INTRUSIVE INVENTION?



A Virtual assistant constantly listens for commands while connected to the internet. In 2018, a parrot called Rocco used one to order a watermelon, ice cream and a kite.

3.

### FLUSH TOILET









THE FLUSH TOILET WAS INVENTED



IN 1596. HE BUILT HER A WOODEN LOO WITH A

















#### BOLDLY GO

The world's most expensive toilet cost over \$23 million US dollars to develop. It is on board the International Space Station and uses a fan — not a flush — to suck waste inside it.

#### SITTING PRETTY

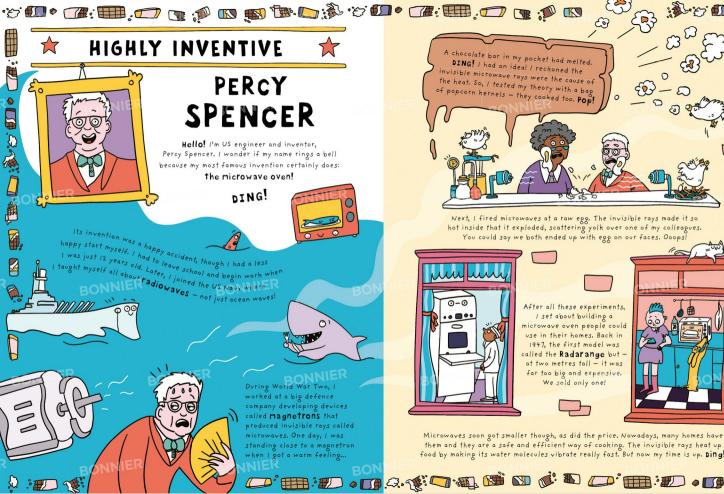
The most valuable loo on Earth is on display in the Hang Fung 'Hall of Gold' in Hong Kong. Solid gold, it is valued at \$5 million, and no one is actually allowed to use it as a loo.



#### IS IT ART?

The sculpture 'Fountain' by French surrealist artist Marcel Duchamp is a factory-made men's urinal laid flat and signed 'R Mutt, 1917'. Experts reckon it is the world's most important piece of modern art ever!







Microwaves soon got smaller though, as did the price. Nowadays, many homes have them and they are a safe and efficient way of cooking. The invisible rays heat up food by making its water molecules vibrate really fast. But now my time is up. Ding!



# BUBBLE WRAP



















IN 1959, COMPUTER COMPANY IBM







WHATEVER NEXT?

### WRAP STAR

Sealed Air',
the company formed by
the two inventors to
produce bubble wrap,
celebrated its 50th
anniversary in 2010 with
a limited-edition goldcoloured version.





Today, bubble wrap bubbles come in many shapes and sizes including novelty smiley faces and love hearts!



bubble wrap without ever

running out of bubbles!

POP ARTIST

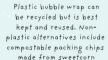
US artist Bradley

Hart copies famous

paintings by injecting

paint into the bubbles

on piant sheets of



and mushrooms.

PACK IT IN!



















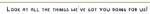
























Yorker, Mary A Delaney. She wanted

to stop dogs getting tangled up with

lampposts. Dogs love lampposts!



rubber muzzle invented in Japan that can turn a nippy dop into a nuttylooking duck with a funny, friendly smile.

#### EAR. EAR!

In 1980, US inventor James D Williams patented his Animal Ear Protectors - a device for keeping long-eared dogs from trailing their lengthy lups in their food as they feast.

#### SHADES OF GLORY

pootles through a puddle.

US businesswoman Roni de Lullo invented 'Doggles' - doggy sunglasses - after playing in bright sun with her own dog, 'Midknight'. Not just a fashion item, they also protect against dust and sand, and can help dogs with dodgy eyesight.





### STICK WITH IT

Us chemists trying to make a superstrong adhesive in 1968 accidentally produced a gentle, reusable give instead. It took five years to think of using it on sticky notes, whose pale yellow colour comes simply from the spare paper they had to hand whilst developing the idea.

#### NUTTY PUTTY

Silly Putty was invented in 1943 by Scottish chemist James Wright who was trying to make a new type of rubber. Instead, he came up with a weird slime that bounced and stretched, but kept its shape when you hit it with a hammer. How nutty is that?



US mechanic Walter Hunt accidentally invented the safety pin in 1849. He bent a bit of wire into the form of a springy clip while wondering how to pay off a small debt. He sold his idea for just \$400 to a company that then made millions from it. In the 1970s, safety pins were high fashion for punk music fans!

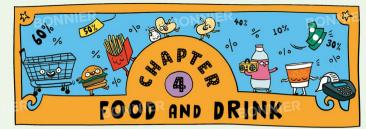


#### OFF THE WALL

Play-Doh™ craft clay was originally created for cleaning dirt off wallpaper in 1930s USA. Nursery school teachers found it a fun and safe modelling material, and it was relaunched as an artistic toy in lots of bright colours.

#### SPRING INTO ACTION

One day in 1943, US naval engineer Richard James knocked a spring off a shelf and watched as it 'walked' down some books to the floor. He made his own improved steel coils to sell in shops, and the name Slinky was picked from the dictionary by his wife Betty.



It is easy to take food and drink for granted as we trundle a trolley through the supermarket. Not so long ago, our ancestors only had a field for their fruit and veg, and a herd of mammoths served as a mobile meat counter. In many ways, we really do have life today on a plate. In this chapter, we chew over the stories behind our favourite things to eat and drink.

#### WORLD'S MOST IMPORTANT FOOD



A staple food is one lots of people rely on. Maize or corn is the world's number one. and the Mayan people of ancient Mexico worshipped it as a god. Show your cornflakes some respect!

#### WORLD'S OLDEST EDIBLE FOOD



Clay jars of 5.500-uear-old honey were dup up in the country of Georgia, Honey jars were also found in the tomb of Epyptian pharaoh Tutankhamun. Do they have best-before dates?

#### WORLD'S HEAVIEST TURNIP



Fact meets folktale! In February 2021, Canadian Damien Allard grew an enormous turnip that weighed a whopping 29 kilograms! Luckily, he didn't need a mouse to help him harvest it.

#### WORLD'S STINKIEST FRUIT



The durian is a prized, spiky Asian fruit that tastes delicious, but smells atrocious. In fact, its honk is so horrible that Singapore has banned it from buses and trains.



### HAMBURGER







CHEESEBURGER





MAYBE! GERMAN

SETTLERS TO THE USA

IN THE 1800s MAY HAVE

BROUGHT OVER HAMBURG

STERK - A FRIED MIX OF

MINCED BEEF AND EGG.

DON'T I SOUND

TASTY















STLLOURS NEWS BEEF-FILLED BUN IS





AND THE FIRST BURGER BAR



### WHATEVER NEXT?

## HAND TO MOUTH





#### FULL OF BEANS

#### BIT OF A MOUTHFUL

#### HOT STUFF

The meatless veppie burger was invented in 1982 by chef Gregory Sams. Not having eaten meat since he was a child, petting it to taste right took him quite some time!

The double-decker Bip Mac burger sold by the McDonald's fast food chain was invented in the USA in 1967. It was called 'The Aristocrat', but customers weren't sure how to pronounce its name so it was soon changed.

In India, where eating beef is unpopular, McDonald's sells a chicken-based substitute called the Maharaja Mac. There is also a spicy meat-free Tikki Burger made with potatoes and peas.

MEALS ON WHEELS

The world's smallest working

burger van was built by British

inventor Yannick Read for his



#### RED ALERT

Wendy's burger chain was named after the eightyear-old daughter of the company's founder, Dave Thomas. Her name was actually Melinda, but she was known at home as Wendy - and is the copper-



HUNGRY FOR KNOWLEDGE

Hamburger Universities around the world where you can study for a degree in 'hamburgerolopy'!



### FIZZY DRINKS























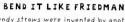


BUT, SADLY, MANY OF THEM STILL

# TOP OF THE POPS

#### THE FIRST STRAW

Drinking straws were originally just a dried, hollow grass stem through which a drink was sipped. American Marvin C Stone invented the rolled paper version in 1888 as he hated the taste the grassy straw added.



Bendy straws were invented by another American, Joseph B Friedman, in 1937. He came up with the idea of the flexible joint after watching his young daughter Judith struggling to use a straight straw whilst sat at a counter.

#### BEAT THAT BOTTLE!

The curvy Coca-Cola bottle was created in 1915 to make the drink stand out from its rivals, and so it could be recognised by touch alsne. The world's largest Coke bottle stands outside a mall in Las Vegas, Nevada, USA, and is 30 metres tall!

#### THINK BEFORE YOU THROW

Plastic bottles placed in the bin get burned or buried in the ground.
However, recycled bottles can be turned back into new bottles or used to make clothing. It takes just ten to make a T-shirt and helps save the plane!

## LOTS OF BOTTLE

In 2014, Czech friends Jakub Bures and Jan Kara built a boat from 50,000 fizzy drinks bottles and successfully sailed it 850 kilometres down the River Elbe to highlight the problem of plastic pollution.







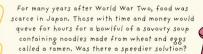
### HIGHLY INVENTIVE

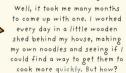




# ANDO

Hi! I'm Japanese businessman Momofuku Ando. Back in 1958, I invented the world's fastest fast food: instant noodles. You could say they were an 'instant' hit!







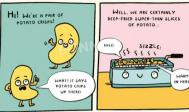
My wife Masako showed me the way. One day I watched her deep frying tempura batter in hot oil to produce crunchy, tasty treats. She goided me as to what to do: dry my noodles by pre-cooking them in hot oil!



Now, about 100 billion noodle pots are eaten each day and, in 2005, a special space version was enjoyed by a Japanese astronaut on the space shuttle. Some Japanese people say my noodle snack is an even better invention than the bullet train. Well, it's certainly just as fast!



### POTATO CHIPS





ALSO CALL CHIPS. FRENCH FRIES

SACRE BLEU!









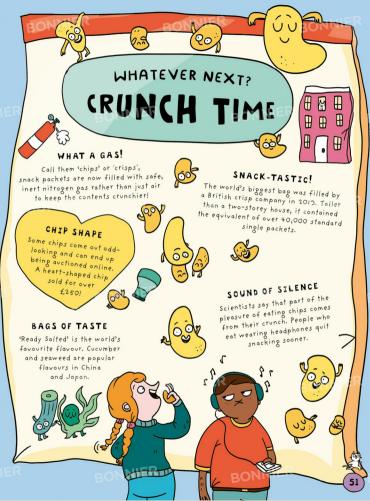


IN THE 1920s. US BUSINESSWOMAN













Humans have been waking up each morning and wondering what to wear for tens of thousands of years. Our first clothes came from furs, leather and tree bark. Today we use synthetic materials like nylon and plastics to make cheap clothing that we often chuck away when fashions change. In this chapter, we look at some items of everyday armour we have in our wardrobes. Here are some wearable bits of history:

#### WORLD'S OLDEST SOCKS



Knitted from bright red wool, these socks date back to Egypt, about 1,700 years ago. They had lobster-like toes so they could be worn with sandals.

#### VIEYOUR FIRST FASHION ITEM



For most of us, this was a disposable nappy! Us inventor Marion Donovan hit on the idea back in the 1940s.
Today, revsable cloth versions are far more eco-friendly.

#### MOST FIREPROOF FABRIC

Kevlar, a super-tough material that resists heat and tearing, was created by US chemist Stephanie Kwolek in 1965. Firefighters wearing her Kevlar clothing can walk through flames!



#### MOST EXPENSIVE SUIT



US space agency NASA is developing a new spacesuit that costs about \$500 million! Even at this price, wearers need a giant nappy called a Maximum Absorbency Garment (MAG) to use the loc outside!

This high quality DDE previous was congreted as Sunday 10 Nevember 2024. Visit hookshalf homisphacks on uk for up to data provious and information

### DENIM JEANS



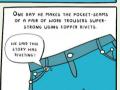




















US PATENT NO. 139,121





## WHATEVER NEXT?

## JEAN SCENE

#### CREASE ME UP

The light creases that form in jeans with wear have special names.

'Whiskers' fan out at the front, crisscross 'honeycomb' creases form behind the knees, and 'stacks' are faded lines above the ankle. They all make vintage jeans more valuable!

#### JEAN'S JEANS?

Lady Levi's were the first denim jeans made especially for females in 1934. They were intended as workwear, but were also popular with women who went on Wild West holidays inspired by Hollywood films.



Making jeans uses lots of water including growing cotton, dyeing the denim, and stonewashing to distress it. Make your wardrobe more eco-friendly by patching rips and owning them for longer.





### WHAT A GOLDMINE

The oldest surviving pair of Levi jeans dates back to 1879 and were found in a former gold mine. They are so valuable they are kept in a fireproof safe that only two people can open.



#### 7.70 ....

### ZIP CODE

Many modern jeans have a zip with the letters YKK on the slider. These are the initials of the Yoshida Koayo Kabushikikaisha company of Tokyo, Japan, which supplies most of the world's zip fasteners. Now you know!





### SPORTS SHOE

















NIKE CORTEZ (1972)





NIKE MOON SHOE (1974) NIKE AIR MAX (1987)









#### DO YOU HAVE IT IN A SMALLER SIZE?

The world's largest trainer was displayed inside a shopping mall in Hong Kong, China, and at 6.4 metres long, it might well have fitted the Statue of Liberty.

college studente was paid just

soft though your letter the COMPON O SWOOT HE WITH



How much do you think your old trainers are worth? A pair of used Nike Air Ships sneakers sold for almost \$1.5 million in 2021, a record price. The shoes had been worn and signed by basketball legend Michael Jordan in 1984.

### GET MY DRIFT?

In 1990, a container ship hit a storm in the Pacific Ocean and 61,000 pairs of Nike trainers went overboard. Experts used the shoes' movements to study ocean currents.

#### GREEN SHOES

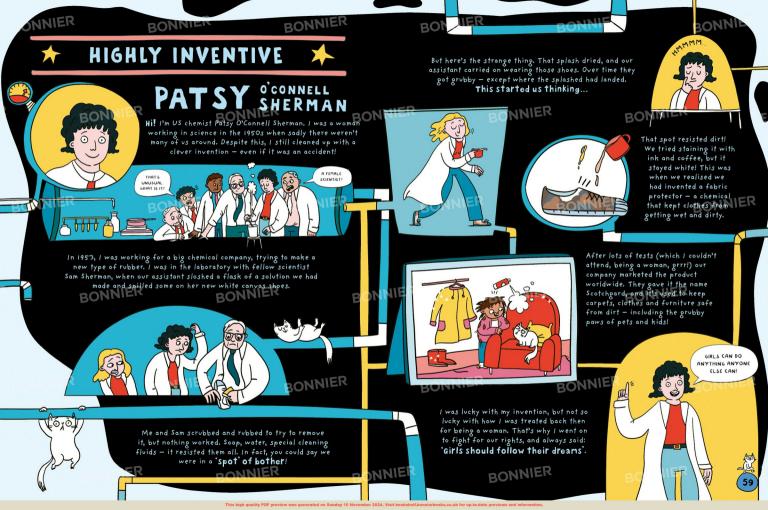
designed in 1971 by

Sports shoes and sneakers can take 1,000 years to rot away when sent to landfill. Any pood, clean shoes you have outgrown are best offered to others or given to a clothing charity.



Japanese sports brand Asics takes its name from the first letters of the words in a 2,000-year-old phrase in Latin, the language of the ancient Romans: 'Anima sana in corpore sano' - which means 'a healthy mind in a healthy body'.









Play is an important part of life for many animals, not just us humans. Cats and dogs, our closest companions, keep it up as adults, as do most people — even teachers! Over the centuries, humans have invented lots of weird and wonderful ways of wasting time whilst having a laugh. In this chapter, fun and games are guaranteed. Here are some top toy stories to get play underway...

#### OLDEST KNOWN DOLL



In 2017, archaeologists found a carved stone doll's head in a remote region of Siberia, Russia, that may be 4.500 years Old. However, the first human playthings were probably just sticks. Ask your dog!

#### **BEST-SELLING DOLL**



The **Barbie** doll was invented in 1959 by US businesswoman Ruth Handler, Barbie was named after Ruth's daughter Barbara, and Barbie's boyfriend Ken (since 1961) was named after her son, Kenneth.

#### WORLD'S SWEETEST DOLL



Stretch Armstrong, launched in the USA in 1976, can be stretched to over four times his size, and keeps his new shape (he is filled with a **thick Sugary Syrup**) before finally shrinking back.

#### WORLD'S CRAZIEST CRAZE



Cabbage Patch Kids were chubbyfaced cloth dolls that the world went mad for in the 1980s. People fought each other in shops to try and buy them. Ask your parents!

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## SKATEBOARD























The modern pago stick was invented in 1920 and named after its German inventors, Max POhlig and Ernst GOttschall. Today, the toy has turned into an extreme sport — Xpago — where skateboard-style tricks are attempted and people can pago over three metres high!



### BANGERS AND DASH

The folding micro-scooter was thought up by former Swiss banker Wim Ouboter in 1997 as a speedy way to reach a favourite Zurich sausage shop without having to use his car. Stunt scooters now do tricks worldwide alongside skateboards.



### FUTURE SUCCESS

HOP TO IT!

Call it a spacehopper, a hoppity hop or a

kangaroo ball, the big bouncy ride-on was

invented in Italy in 1968, and originally

named Pon-pon. The spacehopper speed

record for 100 metres is 30.2 seconds and has stood since 2004. Could you beat it?

China-born Shane Chen patented the two-wheeled electric hoverboard in 2011. Though they don't actually hover, hoverboards are named after a floating skateboard in the fun sci-fi film, Back to the Future Part II, set in 2015. Shane beat them to it!







### TEDDY BEAR











THIS INSPIRED NEW YORKER















#### BEAR WITH ME

Winnie-the-Pooh is probably the world's best-known bear. The loveable character was based on a real teddy bear - named Edward - that English author A A Milne bought for his son, Christopher Robin, in 1921.

#### SHELF LIFE

Paddington, the accident-prone bear from Peru, is another storybook bear based on an actual teddy. His creator Michael Bond spotted a lonely ted on a toy shop shelf on Christmas Eve. 1956, and rescued him. Early Paddington teddies were given wellington boots so they would





The world's smallest teddy with moveable, jointed arms and leps is just 4.5 millimetres tall. Tiny Ted, as he is known, was sewn by South African Cheryl Moss, who specialises in making 'microbears', 'TT' is on display in a museum, under a magnifying plass.

#### GREAT BEAR

The world's largest teddy was made in Mexico in 2019 and displayed in a football stadium. It was created to celebrate Children's Day, which happens in Mexico every April 30th, with fun events in schools instead of lessons, Hooray!





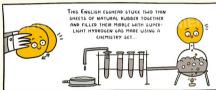
### TOY BALLOON





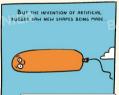














THE USA WENT BIG ON BALLOONS - ESPECIALLY THE NOVELTY VERSION INVENTED BY NEIL TILLOTSON IN 1931.











WHATEVER NEXTE





Humans are highly competitive. Early sports events may well have been stone and spear throwing, like the javelin and shot put of modern athletics. The ancient Greeks pave sports a sport, but many of our most popular games were invented less than 200 years ago. Now, grab a stopwatch and a friend: who can read this introduction out loud the fastest?

#### WORLD'S FIRST OLYMPIC CHAMPION

Coroebus of Elis, a cook, won the footrace at the first recorded Olympic Games held in ancient Greece in 776 BCE. He was handed an olive wreath and hailed a hero.



#### WORLD'S SECOND BEST SPORT



After football, comes Volleyball. It was invented in the USA in 1895 as a cross between basketball and badminton, and originally called mintonette.

### WORLD'S OLDEST BALL GAME



Ancient Mayans played a game using a solid ball of natural rubber on special courts over 2,000 years ago. The ball was so heavy it probably broke bones.

### NEWEST OLYMPIC SPORTS



are all new Olympic events. 13-yearold Momiji Nishiya of Japan won the women's street skateboarding in the 2020 summer games, making her the third youngest Olympic gold medallist.

Breakdancing, surfing and skateboarding

### FOOTBALL







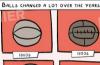






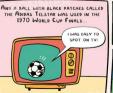


















century Britain, when players wore matching peaked caps rather than different coloured shirts to show which team they were on.



The disappearing spray used by referees to mark the position of a defensive wall for a free kick was invented by Brazilian football fan Heine Allemagne in 2000. The pressurised can contains water and a small amount of vegetable oil that forms a short-lived white foam, Magic!



### TABLE TENNIS













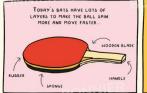
















## WHATEVER NEXT?

# HAVING A BALL

#### COLOURFUL IDEA

Ball pits have been bouncing around since 1976. Their Canadian creator Eric McMillan got the idea from looking at a jar of pickled onions. The world's largest ball pit was built in China in 2015, with over two million balls!



Soft foam balls for safe indoor play were launched in the USA in 1969. Their inventor, Reyn Guyer, originally developed the material for fake foam rocks that kids would throw at each other as part of a prehistoric caveman pame. Up! Don't hit me!

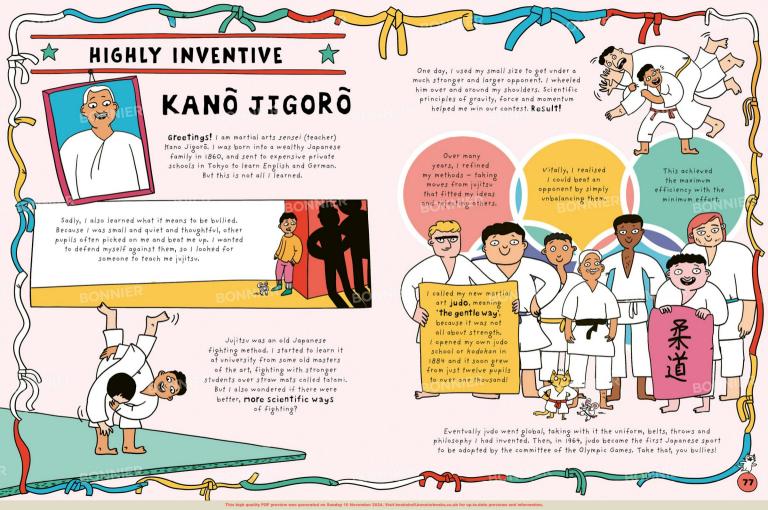
### FRUIT LOOP IDEA

Basketball was invented in 1891 by Canadian PE teacher James Naismith. He nailed two closed-bottom fruit baskets to opposite ends of a pymnasium, and a ladder was needed to fetch the ball each time a slam-dunk was scored. The first basketball was actually a football.

### BRIGHT IDEA

Tennis balls are made from two pieces of rubber with a stretched-8 shape. Most were once white, but it was found that 'optic yellow' balls were easier to see on colour TVs, though some insist they are lime green. Either way, dogs love 'em.









Humans have been staring at screens for thousands of years. The first were probably the walls of caves, where flickering flames made drawings of bison and mammoths come alive. Then came paintings and printed pictures, before ebooks, TV screens and all our modern media. In this chapter, we get the lowdown on the hi-tech stuff that shapes our lives.

#### WORLD'S OLDEST COMPUTER



The Antikythera is a mysterious machine, over 2,000 years old, that may have been an early form of computer for predicting eclipses. It was found in a shipwreck in 1901 and is still not properly understood.

### FIRST TV PERSONALITY

Stooky Bill was a scarily painted dummy used by Scottish inventor John Logie Baird as a stand-in for his first experiments in television in the 1920s. Understandably, he came across as rather wooden!



### MOST POPULAR CHILDREN'S E-BOOK



Electronic-reading devices have been around for decades. Started in 1971, Project Gutenberg provides classic ebooks for free. The most downloaded children's book is Lewis Carroll's

Alice's Adventures in Wonderland

#### MOST WANTED METALS



Smartphones contain many of Earth's rarest and most valuable metals including cobalt, manganese and lithium, as well as pold, silver and platinum. Hang onto devices for as long as you can and recycle them when you upgrade.























# WHATEVER NEXT?

### SQUID GAME

Launched in Japan in 1978, Taito's Space

Invaders was a revolutionary arcade game.

A tense 'shoot 'em up', it was the first to record
player's high scores and had a musical score.
Inventor Tomohiro Nishikado based the menacing
aliens on crabs, squids and octopuses.



The world's most expensive video game is an unopened copy of Nintendo's Super Mario Bros from 1985, which sold for a record \$2 million in 2021. Plumber Mario first appeared in the 1981 game Donkey Kong, and was originally called Jumpman.

### DO WEE AGREE?

The Nintendo Wii was launched in 2006, with motion-detecting remote controls allowing players to mimic sports. Some thought the word ('wee') sounded silly, but the company said the dotted 'i's were two people playing side-by-side and the 'W' was a pair of nunchuk martial arts weapons.



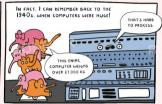
The first so-called 'Easter Egg' was hidden in the Atari video game Adventure in 1979.
The game's inventor hid the words 'Created by Warren Robinett' in a secret room without telling anyone. It was only discovered after he left the company. Now 'Easter eggs' turn up in films, books and on TV as well.

JIEF

### TABLET COMPUTER



























OK COMPUTER

### OH NO. THE DRAGONFLY IS DOWN!

Wireless linking system 'wi-fi' was first developed in 1990 by a US company that wanted to connect cash registers in stores. 'Wi-fi' does not actually stand for anything it was just a catchy name that rhymed with 'hi-fi'. Earlier proposals included DragonFly or FlankSpeed.

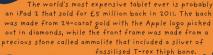


by Swedish tech company Ericsson in 1994. It is named after the Viking king Harald Bluetooth, who lived in Scandinavia over 1,000 years ago. The Bluetooth logo combines the ancient Viking alphabet letters (runes) for the initials 'H' and 'B'

### DON'T BUG ME

A technical plitch in a computer is commonly called a 'bug'. The term is said to have been born in 1947 when US scientist Grace Hopper found a real insect inside an important computer, stopping it from working properly. The culprit was actually a small brown moth. (Sadly, dead.)











### HIGHLY INVENTIVE





### JAWED KARIM

Hi! I'm Jawed Karim. I was born in Germany in 1979, and me, my little brother and our German mum and Bangladeshi dad all moved to Minnesota, USA, in 1992. Little did we know that was I destined to make internet history—all for just 19 seconds!

I studied computer science at college as well as working at the online payments service PayPal. That was where I met these guys, Steven Chen and Chad Hurley.





Working out of a converted garage, Chad designed the site and the logo, and Steven and I worked on the programming. The site went live on Valentine's Day, 2005 - but my big date was just a few weeks later, on April 23rd.



That was when we uploaded YouTube's first ever video, 'Me at the Zoo'. It starred me and some elephants, and was shot at San Diego Zoo by a school friend, Yakov Lapitsky. It was very short but made internet history. Here's the whole thing:



Historic, huh? Amazingly, that first ever upload has now had over 284 million views. To me that's pretty impressive but, then again, 'Baby Shark Dance' leads the way with over 10.8 BILLION! All together now...



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### SMARTPHONE







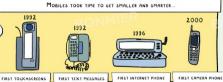


















### WHATEVER NEXT?

### APPY EVER AFTER

#### NOMNOM

Video-sharing service TikTok was developed in China in 2016. It is famed for setting some odd food trends including frozen honey, hot chocolate bombs, cloud bread and mini pancake cereal. Currently, the top TikTokker is Senegal-born Khabane 'Khaby' Lame with over 160 million followers.









#### BLUE BIRD

Micro-blopping site X (formerly Twitter) was hatched in the USA in 2006. It was originally launched as twttr - no vowels - as someone already owned the web address twitter.com. The company's previous blue bird logo actually had a name - Larry - and the world-famous design only cost them \$15!







Instagram started in the USA in 2010, Its name is a mix of 'instant camera' and 'telegram' - an old way of sending messages. The first photo ever posted on the site was of a seaside pier in California, with the water at a 45-degree angle.

FAIL!

### SEARCH ME!

Search engine Google began from a garage in California, USA, in 1996. The name is a nod to the billions of websites the service checks for information - a 'poopol' being a one followed by 100 zeroes!

Incredibly popular, the word 'google', meaning to look up something online, hit the dictionaries in 2006.











BRAVE BONNEW WORLD

Robots doing housework. Hologram humans standing in our living rooms. All these were once the stuff of science fiction films. Now they exist for real. Some of them, like smartphones, we even take for granted. But what new marvels might the near future have in store? Strap on your jetpack, we're going in!







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#### THE JET SET

Jetpacks already have lift-off, but flights are either rather short or rather wet. Many models work using high pressure plumes of water and so need to be flown over lakes or the ocean. Fine for the school-run if you're by the seal

### INVISIBILITY

A wizard idea that inventors have been pattering about with for many years. The principle is simple — bring the view from behind an object to the front so it seems to disappear — but complicated in practice. Still, we may see one eventually. (Or not if you get what we mean.)

### SWEET SMELL OF SUCCESS

Scientists in Scotland have invented a clothing fabric that produces electricity from the chemicals in human sweat. The energy can be stored and used to recharge electronic devices such as smartphones and watches. No sweat!

### VISION OF THE FUTURE

BONNIER

Bionic eyes capable of super-sight have long been part of science fiction. However, in 2021, Israeli surgeons placed an artificial sensor inside an eye that restored the vision of a man who had been blind for a decade, allowing him to see his family once more.

### ARE WE NEARLY IN THE AIR YET?

Yes! Flying cars are a reality, though only as a small number of prototypes. As well as design problems, there are issues of noise, pollution and safety, as well as finding spaces for them to land and take-off. However, it is thought the cars will probably fly themselves.

Enjoy the view!

### THINGS TO COME

'The internet of things' is a term for the home of the future where all appliances are connected and can be controlled remotely from a smartphone. Scientists have already made a hittech loo that monitors your weight and health. Imagine getting a text from your toilet!

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# HIGHLY INVENTIVE YOUNG WIZARDS

Hi! I'm legendary US inventor Thomas Alva Edison. I had over 1,000 patents for everything from the movie camera to a reliable electric lightbulb, and despite being deaf, I also invented an early way of recording sound. The public called me 'the wizard for the wonderful things thought up, beginning at the age of 22. But even younger people have lightbulb moments like mine. Let's meet some of these 'young wizards'.

I'm Rifath Sharook. In 2017, aged 18, I created the first 3D printed satellite to be shot into orbit around Earth by US space agency NASA. It weighed just 64 grams - making it the smallest and lightest satellite so far!



I'm Chester Greenwood. Back in 1873, aged just 15, I was out ice-skating when I hit on the idea of earmuffs for keeping your lugs lovely and warm.





I'm Robert Patch. In 1963, aged six, I patented my idea for a toy truck that could be taken apart and rebuilt in lots of different ways. I couldn't spell my name then, so I signed my design with an 'X'.



I'm Louis Braille.

I was blind from the age of five but I still wanted to read. So, in 1824, I invented my own system for writing using raised dots on paper. It was named Braille, after me, and I was only 15 years old!





I'm William Kamkwamba. In 2001, aged just 14, 1 built a wind turbine to provide electricity for my family home in Wimbe village. It used parts scavenged from a scrapyard, including a bike wheel, and made me famous!



WIMBE MALAWI



I'm Richard Turere. Lions attacked our family's cattle at night so, aged 11, 1 invented my Lion Light. I used LED bulbs from old appliances and made them flash around to look like people carrying torches. No more lions!



WOLLONGONG, AUSTRALIA



I'm Abbey Fleck. In 1993, at the age of eight, I invented a device for cooking strips of bacon vertically in the microwave. Less waste, more taste!



I'm Thato Kgatlhanye. In 2014, I invented a schoolbag made from recycled materials with a removable solar-powered light. It helped children be seen as they walked to school in the dark, and could be used instead of a candle at home.

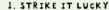


MOGWASE, SOUTH AFRICA



# PATENT'S PROGRESS

Any bright spark can have a bright idea. But getting from inspiration to an actual invention is quite a journey. It involves a lot of work, a lot of time and often a lot of money. Here's a possible path from 'Ping!' to product...



PING! You are eating a banana when you are suddenly struck by a great idea: 'Fruit Loot' — points for eating fruit and veg you can swap for prizes!



### 2. KEEP IT QUIET

Don't tell too many people! A patent is a legal document that stops people copying your idea. You can't get one if others know about it already. Shhh!



Possibly someone else had the same idea? Search past patents and existing inventions on the internet and see if it's been done before.



### 5. DRAW IT UP

Sketch how your idea might look.
Patent drawings don't need to be
perfect but they help others get
the picture.



### 4. WRITE IT DOWN

Grab a notebook and make dated, detailed entries about your idea. You may need to prove how and when you worked it out.



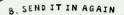
#### 6. MAKE IT REAL

This is where it can get expensive. There are special lawyers who help inventors apply for patents, but they charge for their time — and time is money!



### 7. SEND IT IN

Now you must submit your idea to a national patent office. Their job is to check if it is genuinely new and useful.



New ideas are often rejected first time. It is part of the process to make sure only serious ideas get patents. And it can take several years...



Woo hoo! You've been granted a patent, meaning no one can copy your idea in your home country for the next 20 years. Now do the same worldwide.



### 10. MAKE IT BIG

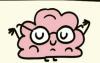
Congratulations! Your invention is being made and sold all over the globe. Just one question remains: what will you buy with your first million?







# JUNIOR GENIUS



### Have you got an amazing new invention?

(Copy this page and jot down your ideas - remember to keep it secret until you have a patent for it!)

ORAW YOURSELF	HERE	DRAW YOU	IR INVENT	ION HERE
		BOMMER		
NAME:	PANIER	gerenter.		
WHA	T IS IT CALLED	AND WHAT DO	DES IT DO	?

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