PEACE AT LAST?

The leaders of North and South Korea hail historic meeting p2

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An historic meeting

On 28 April, the leaders of North and South Korea met for an historic meeting to discuss getting rid of North Korea’s nuclear weapons and officially ending the Korean War. It was the first time a North Korean leader had set foot in South Korea for nearly 70 years.

What was the Korean War?
The Korean War began in 1950 between South and North Korea. Both sides wanted control over the whole of the Korean peninsula (this includes both South and North). South Korea was supported by the US, and North Korea was backed by China and Russia. At least 2.5 million soldiers and civilians died. In 1953, the two sides agreed to stop fighting. This wasn’t a peace agreement, though, and North and South Korea have technically been at war for almost 68 years. Over the decades, both sides have threatened to attack the other.

What happened at the meeting?
At precisely 9.30am on 28 April, North Korean leader Kim Jong-un walked up to the border between the two nations and shook the hand of South Korean leader Moon Jae-in. Kim then invited Moon to step on to the North Korean side of the border. During the meeting, held in South Korea, the leaders agreed to rid the peninsula of nuclear weapons – the most powerful bombs ever invented – and said they will formally agree to a peace treaty by the end of the year. The leaders also agreed to organise a reunion of families divided by the war. After the meeting, the two leaders planted a tree on the heavily guarded border as a sign of peace.

What have world leaders said about it?
China, which is an ally of North Korea, praised the “courage” of both sides. US president Donald Trump tweeted, “KOREAN WAR TO END! The United States, and all of its GREAT people, should be very proud of what is now taking place in Korea”. Trump believes that he is responsible for the historic talks between the Korean leaders because he has been very vocal about demanding that North Korea stops its nuclear tests. Trump is expected to meet Kim for talks in May or June.

What will happen next?
On 29 April, North Korea announced that it would close its nuclear test site in May. South Korea said it would permanently take down its loudspeakers on the border, which play everything from Korean pop music to news reports that criticise the North. North Korea also announced that it will change its time zone so that it will be the same time as South Korea’s. North Korea changed its time zone in 2015 so that the time was 30 minutes behind the South.

Are there any problems?
Lots of countries don’t trust the North Korean leader. In the meeting, Kim did not say how the North would get rid of its nuclear weapons. In previous meetings leaders both South and North Korea said they would commit to getting rid of nuclear weapons, but it hasn’t happened yet. Only time will tell whether they mean it.
Royal baby is named

On 27 April, Kensington Palace took to Twitter, to say that the Duke and Duchess of Cambridge were “delighted” to announce the name of their third child to the world. The name of the new baby prince is Louis (pronounced Lou-e) Arthur Charles. His full title will be His Royal Highness Prince Louis of Cambridge.

His parents showed their new arrival to the world just hours after he was born, at 11.01am on 23 April, but they didn’t reveal his name straight away. Lots of people had a guess, and many people thought the name would be Arthur or Albert, because they are both traditional royal names.

The young prince shares the name Louis with his father, the Duke of Cambridge, whose full name is William Arthur Philip Louis, and with his big brother George, whose full name is George Alexander Louis. He shares the name Charles with his grandfather, Prince Charles. Prince Louis is fifth in line to the throne behind Prince Charles, Prince William, Prince George and his big sister Princess Charlotte.

Fans of the royal family are hoping that they will catch another glimpse of young Prince Louis on 19 May. That’s when his uncle, Prince Harry, will marry Meghan Markle at St George’s Chapel at Windsor Castle.

Ban is big news for bees

On 27 April, the European Union (EU) agreed to a near-total ban of neonicotinoids – a type of insecticide used to protect plants from hungry insects.

This is good news for bees because these chemicals are harmful and have been linked to their decline.

Neonicotinoids are one of the world’s most widely used insecticides. Scientists have long believed that they affect the populations of honeybees, wild bees and other pollinators (bugs that transport pollen between plants, helping them reproduce). Pollinators are vital in the production of food – they are responsible for pollinating three quarters of the world’s crops.

It’s thought that neonicotinoids do not kill the bees straight away, but cause death over a long time. The chemicals also pose a threat to queen bees, which means that they cannot reproduce to keep the colony alive. This leads to the decline of the species.

In 2013, the EU introduced a partial ban on the three main types of neonicotinoids and their use on certain types of crops. This new ban means that by the end of this year, farmers will no longer be allowed to use these three chemicals in any outdoor space across Europe. It does not apply to their use indoors, so people will still be able to use them in greenhouses.

The ban has been welcomed by environmental campaigners. However, some farmers and insecticide makers have expressed their unhappiness, as they say there is not enough scientific evidence that bees are affected by neonicotinoids.

IT’S AN AMAZING WEEK FOR...

CATCHING WAVES
Brazilian surfer Rodrigo Koxa has set a new world record for the biggest wave ever surfed after conquering a 24.4-metre-high monster wave during a surfing competition in Nazaré in Portugal last year. The record was officially confirmed on 28 April.

AVENGERS: INFINITY WARS
The latest film from the Marvel universe had the biggest opening weekend in film history. It is estimated that Avengers: Infinity War earned about £457 million across the world on 28–29 April. The film won’t appear in Chinese cinemas until 11 May – when it is expected to make even more money.

EMPEROR PENGUINS
An emperor penguin living in Antarctica has completed the longest penguin dive ever recorded. This cool customer managed to maintain the dive for 32.2 minutes. Scientists were able to track it after tagging the emperor penguin in 2013. The previous record for an emperor penguin dive lasted 27.6 minutes.
Amber Rudd resigns

On 29 August, Amber Rudd, the Home Secretary, resigned (left her job). She quit after giving Members of Parliament (MPs) wrong information about the Government’s treatment of immigrants (people who move from one country to live in another), following the Windrush scandal.

Who is the Home Secretary?
The Home Secretary is one of the most important people in the Government. He or she must “keep citizens safe and the country secure”. Their job involves looking after national security, the emergency services (the police, fire brigade, ambulances and coastguard), immigrants and citizenship.

What is the Windrush scandal?
Between 1948 and 1971, thousands of people from the Caribbean were invited to move to the UK to live and work. They were known as the Windrush generation because the first group to arrive travelled on a ship called the Empire Windrush. In 1971, a law was passed promising that they would have the right to stay in the UK. Yet many of them weren’t given official documents to show this. In 2012, the Government introduced rules that forced immigrants to prove they had a right to be in the country. People who could not prove this were told they could be deported (when someone is made to leave a country). Many of the Windrush generation lost jobs and access to healthcare, and some were threatened with deportation.

Why did Rudd resign?
Many people are furious about how the Windrush generation has been treated. They became angrier when it was revealed that the Home Office had a target of how many people should be deported each year. At first, Rudd told MPs there were no targets. She later admitted there were targets but said she had never agreed to them. On 29 April, a newspaper published a letter in which Rudd wrote that she had set targets for deporting illegal immigrants. After days of bad headlines, Rudd resigned.

What was the response?
Members of the Government said they were sad that Rudd had left. The Prime Minister said Rudd should “look back with pride” on her time as Home Secretary. However, many Labour MPs are glad she has gone. The Labour Party’s Diane Abbott said it was right for Rudd to take responsibility.

THE WEEK IN HISTORY

3 May 1968
UK’s first heart transplant

On 3 May 1968, Dr Donald Ross performed the UK’s first heart transplant on a 45-year-old man named Fred West. A transplant is when an organ or tissue is taken from one individual and implanted into another. The operation was carried out at the National Heart Hospital in London and took seven hours. Unfortunately, West caught an infection and, 46 days after the operation, he died. Yet the surgery paved the way for other transplants. Now up to 200 heart transplants are carried out in the UK every year.
Trump to visit the UK

On 27 April, it was announced that the US president, Donald Trump, will visit the UK on 13 July. The one-day visit will include a meeting with Prime Minister Theresa May and the Queen, although there will not be a banquet at Buckingham Palace. Following the news, the Mayor of London, Sadiq Khan, warned Trump to expect protests during his visit to the capital, because many people disagree with Trump’s beliefs and dislike the things he says.

The very toxic caterpillar

The Forestry Commission is warning people in London and the south east of England to stay away from a toxic species of caterpillar that can cause asthma attacks, vomiting and rashes. Known as oak processionary moths, the creatures are in their larval stage (the early stage of an insect’s life) and are mostly found in oak trees. The caterpillars are covered in about 62,000 long, white hairs, which they can shed, causing health problems in humans.

Kiltwalk attracts thousands

More than 10,000 people took part in a 23-mile hike for Glasgow’s Kiltwalk on 29 April. A kilt is a knee length, skirt-like garment traditionally worn by men and boys in Scotland. Sunday’s Kiltwalk was the biggest Glasgow had ever seen, with adults, children and dogs all wearing colourful kilts. More than £2 million was raised for 600 different Scottish charities.

Faked image is disqualified from photo competition

An incredible image of an anteater climbing a termite mound has been disqualified from the Natural History Museum’s (NHM) wildlife photography competition. That’s because it appears that the anteater in the picture isn’t real – in fact, it’s a stuffed specimen.

The picture, called The Night Raider, by Marcio Cabral, was declared the winner of the Animals in their Environment category in the NHM’s Wildlife Photographer of the Year 2017 contest. Concerns were raised in March, and the museum immediately launched an investigation. With the help of experts in taxidermy (the process of preserving an animal’s skin by having it stuffed), the museum declared that the anteater in the photograph is most likely fake. It’s believed that the animal is a taxidermy specimen on display at one of the entrances to the Emas National Park in Brazil, which is where photographer Cabral took this picture.

Five scientists, working separately, each concluded that the anteater is a stuffed specimen. They compared the anteater in Cabral’s photo to pictures of the stuffed anteater, studying the way that both were positioned, their shape and the patterns on their fur. All of them believe that the similarities with the stuffed specimen are too great for them to be different animals.

WOW!

Anteaters do not have teeth – they instead use their long tongues to lap up approximately 35,000 ants and termites every day.

THE WEEK’S SILLIEST HEADLINE

“Don’t glare at your horse, scientists warn: it may hold a grudge” telegraph.co.uk
**Around the world**

**WASHINGTON DC, US**

**French president visits the US**

On 24 April, the French president, Emmanuel Macron, arrived in the US for a three-day state visit (a formal trip by a head of state to a foreign country). The pair discussed global issues, including the conflict in Syria, and they planted a tree on the lawn of the White House as a symbol of friendship. A few days later, the tree disappeared. The French ambassador later explained on Twitter that the tree was in quarantine (when something is kept on its own to check for disease).

**MANAGUA, NICARAGUA**

**Unrest continues in Nicaragua**

Last month, more than 40 people died after anti-government protests in Nicaragua turned violent. Police were accused of firing their guns at protesters. People want the president, Daniel Ortega, and his wife Rosario Murillo, who is vice-president, to step down, after Ortega said that employers and workers had to give more money to the government. On 28 April, thousands of people marched in the capital, Managua.

**ADDIS ABABA, ETHIOPIA**

**First Pizza Hut opens**

Pizza Hut has opened two fast-food restaurants in Ethiopia’s capital, Addis Ababa, making it the first major international fast-food company to set up shop in the east African country. Many are excited about the chain’s arrival but others are worried that it will be too expensive and that it may change local eating traditions and habits.

**VENEZUELA, ITALY**

**Too many tourists in Venice**

Around 30 million tourists visit Venice every year, but only 50,000 people call it home. In a bid to control crowds over the hectic May Day holiday (28 April–1 May), city officials decided to introduce certain measures to keep the number of tourists under control. They redirected the flow of visitors and even completely banned them from accessing certain parts of the city, to free it up for locals.

**MALAWI**

**Antibiotic could save millions of children**

Every year around one in nine children in south and central Africa die before they turn five, mainly from preventable diseases such as malaria – but some scientists say an antibiotic (a type of medicine) called azithromycin could change that. The antibiotic was given to 1,355 children living in Malawi, Niger and Tanzania, as part of a study. Results later showed a 13.5% drop in the number of child deaths, compared to the average. Scientists want to create more of the antibiotic, so that it can be given to more children.
**Leisang, India**

*Access to electricity... nearly*

On 28 April, a remote village became the last in India to be connected to the grid, meaning that all of the villages in the country now have access to electricity. In India, just 10% of a village’s homes and all of its public buildings must be connected to the grid in order for the village to be considered electrified. However, some Indian residents have taken to social media to say that they still can’t get power.

**Kachin State, Myanmar**

*Thousands flee fresh fighting*

More than 4,000 people have fled northern Kachin state in Myanmar in the past three weeks because of fighting. The conflict is between the Myanmar army and Kachin rebels. The Kachin are Christians in a country where the main religion is Buddhism. There has been tension between the military and the Kachin rebels since 2011 because the rebels want a greater say in how the country is run. Since the start of the year, more than 15,000 people have been forced from their homes.

**Nan, Thailand**

*Very first Elderly Games gets underway*

The town of Nan recently hosted Thailand’s very first Elderly Games, for which many older citizens dusted off their trainers to take part in an outdoor athletics tournament. Participants competed in several events, including the 400 metres and the javelin. One 96-year-old man was the standout champion, after winning the 100-metre sprint, the discus and setting a new record in the javelin.

**Andhra Pradesh, India**

*Record number of lightning strikes*

Last week, the southern Indian state of Andhra Pradesh experienced a record-breaking number of lightning strikes in one night. A total of 36,749 lightning strikes were recorded over 13 hours. The freaky weather was a result of heavy monsoon rains that have been battering the state. These downpours are caused by seasonal shifting winds. This sort of rainy weather is not uncommon for this time of year in India, but the number of lightning strikes is. Nine people have died in Andhra Pradesh as a result.

**Near Queensland, Australia**

*Good news for Great Barrier Reef*

The Australian government said on 29 April that it will spend £275 million to help protect the Great Barrier Reef. The reef is suffering not only because of a change in water temperature thanks to global warming, but also from an invasion of crown-of-thorns starfish, which eat coral, and because dangerous chemicals have been leaking into the water.
The big debate

Is marathon running too dangerous?

Running is good exercise, but some argue that marathons are a step too far.

What you need to know

- A marathon is a long-distance running race. Competitors walk, jog or run a distance of 26.2 miles. Some of the world’s biggest cities organise annual marathons.
- Millions of people take part every year for all sorts of reasons, from the world’s best athletes to ordinary people who want to raise money for charity.
- The 2018 London Marathon – which attracted around 40,000 competitors – was run in the hottest weather the marathon has ever had. Organisers contacted runners beforehand, telling them to prepare for the heat.

When it comes to marathons, most of us think of cheering crowds, brilliant costumes and lots and lots of runners. They’re big events full of joy, fun and community spirit. They also raise lots of money for charity. However, this year’s London Marathon was the hottest marathon on record (temperatures reached 24.1°C). Lots of runners found the course more difficult as a result, and some of them needed medical help. Sadly, there was tragedy on the day. A runner named Matt Campbell, a former contestant on the TV show MasterChef, died in hospital after collapsing at the 22.5-mile mark. Eleven others have died after collapsing during the London Marathon since the first one in 1981. Marathons offer fantastic exercise and can boost the spirits of runners, supporters and viewers, but are they too dangerous?

YES – marathon running is too dangerous

Marathons are run by runners of all standards, yet 26.2 miles is a dangerously long distance that puts a lot of pressure on the body. Runners literally run around whole cities without stopping. It’s much more sensible to do moderate running, like a parkrun or a distance of 5k or 10k. Lots of marathon runners require medical attention for things like strains, sprains and dehydration, but this year the heat made the risks far greater. Marathons should be cancelled when the weather is so hot, but they rarely are. Amateur runners are often running to raise money and awareness for a charity, so there’s a great deal of pressure on them to complete the distance. Many probably kept going in the heat this year because they didn’t want to let their charity down.

NO – marathon running is spirited and fun

Marathon running is a great motivator. It gives people a clear goal to keep them focussed and challenged. Since the very first London Marathon, millions of people have crossed the finish line, achieved personal bests, raised lots of money for charity – and had fun and got fit doing so. Organisers make the health of runners their priority, ensuring competitors have all the information they need to enjoy themselves. Hundreds of thousands of bottles of water are handed out every year to keep runners hydrated, 1,200 medical staff and St John’s Ambulance volunteers are on hand to help struggling runners and 300 stretchers are ready to be used at a moment’s notice. Events like this are well organised and most participants are prepared for the challenge and enjoy the experience.

What do you think?

Now that you’ve read a bit more about it, tell us what you think by voting in our poll at theweekjunior.co.uk/polls. Vote YES if you think marathon running is too dangerous, or NO if you don’t. We’ll publish the results next week.
The one-handed NFL player

Shaquem Griffin has been picked to join his twin brother’s team.

On 28 April, Shaquem Griffin was picked by the Seattle Seahawks to join their team in the fifth round of the National Football League (NFL) draft, making him the first one-handed player to play American football professionally. In the draft, newly available players, most of whom have competed at university, are selected to play for professional teams.

Shaquem joined the same NFL team as his twin brother, Shaquille. He got the life-changing call from the Seahawks while he was in the bathroom — his brother had to barge in to pass him the phone.

American football is very different to the football we’re familiar with in the UK. In the US, football is far closer to rugby because players are allowed to handle and throw the ball (which looks more like a rugby ball, too).

Shaquem played his first American football game at just seven years old. However, with only one hand, he’s faced plenty of people who have doubted him and his dreams of playing professionally, but he never listened to them.

Shaquem was born with a condition where the fingers on his left hand would not develop properly. When he was four years old, his hand had to be amputated (removed using surgery) because of it. He didn’t let this stop him, though. He was brilliant at sport at school and later became a superstar in the world of college American football, playing for the University of Central Florida.

When asked about having one hand, and whether it affects his ability to succeed, Shaquem told reporters, “I don’t see it as a handicap and I have never looked at it that way. I haven’t seen anything I couldn’t do. I want to show the world, no matter [if you have] one hand, two hands, if you’re a ball player, you just play ball. I’m going to show everybody what I can do.”

A life dedicated to dairy

Martin Court has been working with milk since 1967. He was milking cows when he was 18 years old and later became a milkman. Based in Llanfihangel in Monmouthshire, Wales, Court has never taken a holiday from work and has only ever had one day off; when blizzards (severe snowstorms) hit the area back in 1982 and he was unable to move his delivery truck.

One of his customers recently wrote to Buckingham Palace to praise Court’s dedication, and the milkman has now been invited to one of the Queen’s summer garden parties. “The party is in the afternoon, so I’ll do my milk round in the morning then head up to London,” Court told the BBC. “I’ll come back that night, so I’ll be able to do my round the following day too.”

Singapour’s bird whisperer

Razali Bin Mohamad Habidin, deputy head avian keeper at Singapore’s Jurong Bird Park, is known as the bird whisperer to his workmates. Razali, who lost 80% of his hearing when he was a baby, joined the park 20 years ago and has developed an extraordinary bond with his feathered friends. He communicates with the birds through grunts and gestures, and says that he recognises them by their “behaviours and personalities”. There are more than 5,000 birds, from parrots to hornbills, at the park and Razali says, “All of them are my friends.”

Helen Sharman, the first Briton in space, tells The Guardian newspaper why humans should be planning to reach Mars.

“‘You need a vision of going somewhere, doing something that is hard, going further than humans have ever been before.”

Court hasn’t had a day off since 1982.

They said it! 🗣️

WOW! Griffin’s college team, the University of Central Florida Knights, won every single game last season and won the annual Peach Bowl football game.
See that tree gently swaying in the breeze? It doesn’t seem to be doing much, but don’t let looks deceive you. András Zlinszky and colleagues from Denmark’s Aarhus University, believe that trees may have a “heartbeat”.

In 2017, Zlinszky used lasers to scan 22 trees, each a different species, and found that many trees move their branches slowly up and down during the night. Now, he and a colleague, Anders Barfod, suggest that this is the tree pumping water up from the roots, like a pulse. Each of these unhurried “heartbeats” lasts for hours. The finding is surprising, since it has long been assumed that evaporation of water from a tree’s leaves created pressure that pulled water up from the roots. It is still unclear how trees pump water, but Zlinszky and Barfod suggest that the tree may gently squeeze its trunk to push the water towards the branches and leaves.

PLACE OF THE WEEK
Charmouth Beach, Dorset

In 2017, Charmouth Beach was voted one of BBC Countryfile Magazine’s top five UK beaches. The beach is split in two by the mouth of the River Char. The lagoon (pool) that often forms is the perfect spot for boating or watching ducks and swans.

It’s also a famous for fossils – an impression or trace of an ancient plant or animal preserved in the Earth’s crust. The nearby Charmouth Heritage Coast Centre runs guided fossil-hunting walks to help visitors discover their very own fossils.

Find out more at tinyurl.com/TWJ-charmouth
The bug that blows up

From deadly stings to electric shocks, animals have evolved a wide range of creative ways to defend themselves. Perhaps the most dramatic is the exploding ant, which blows itself up, splatting its enemies with its toxic innards. Scientists have recently discovered a new exploding ant species in south-east Asia.

In most ant colonies, only the queen reproduces. That means that sometimes the best way for the worker ants to protect their genes is to sacrifice themselves. To defend their nest, exploding ants wrap themselves around attackers and burst the walls of their own abdomen to release a toxic yellow goo. A team of international scientists discovered the new species, called Colobopsis explodens.

There are now 15 known types of exploding ant.

Species of this strange creature have been known for more than 200 years, but this is the first new species that has been described since 1935. The team are studying the ant’s toxic goo to find out what is made of.

FANTASTIC ANTS
There are more than 12,000 species of ant on Earth.

How did left-handed hermit crabs get their name?

Alasdair Maltby
ZSL London Zoo Aquarium

Most hermit crabs use their enlarged right claw as a defence mechanism to protect their shell whenever they feel threatened. However, the left-handed hermit crab gets its name because, in contrast, they use their left claw, which makes them pretty special.

Do you love animals? ZSL London Zoo’s Junior Zoo Academy is a great way to learn about creatures from all over the world. Find out more at zsl.org/experiences
Here comes the bride – and a very royal groom.

At midday on Saturday 19 May, the Queen’s grandson, His Royal Highness Prince Henry of Wales (Prince Harry) and US actress Meghan Markle will get married in St George’s Chapel at Windsor Castle. If you haven’t received your invitation yet, don’t worry – the wedding will be shown on TV and thousands will line the streets to see the happy couple.

**Guests**

The guest list is a lot shorter than for many royal weddings, which usually have more than 1,000 people in attendance. Just 600 have been invited to the service itself, followed by a lunch reception with the Queen. In the evening, 200 close family members and friends will join the newlyweds at nearby Frogmore House for a party hosted by Prince Charles.

As Prince Harry is sixth in line to the throne, the wedding will be smaller than those of his brother and best man, Prince William, and father, Prince Charles, who are both much more likely to be king one day. This means he and Meghan haven’t invited diplomats or world leaders such as US president Donald Trump, or even UK Prime Minister Theresa May.

**Invitations**

Each invitation is individually printed in black and gold using a process called die stamping. They feature the Prince of Wales’s feathers heraldic badge printed in gold ink.

**Cake**

Claire Ptak will bake the cake.

The wedding cake will be a lemon and elderflower recipe created by Claire Ptak, a US baker who runs a shop in London called Violet Cakes. It will be covered in a buttercream icing and fresh flowers.

**Venue**

Prince Harry and Meghan will walk down the aisle at St George’s Chapel at Windsor Castle in Berkshire and say their wedding vows in front of the Archbishop of Canterbury. The castle has been home to British kings and queens for almost 1,000 years and is one of the biggest lived-in castles in the world. After the wedding service, the couple will go on a short carriage ride around Windsor to wave at the crowds and then return to the castle for their lunch reception.

**The Happy Couple**

Prince Harry and Meghan have lived much of their lives in the public eye. Being the son of the Prince and Princess of Wales ensured Harry was famous from the day of his birth. Meghan’s childhood was more normal but she later became a well-known actor and devoted much of her time to charity.
All about the royal wedding

big day

BIG SPENDERS
The wedding is expected to cost £32 million, most of which will be spent on security. The royal family are footing the bill.

Four royal wedding firsts

1. The first royal bride to leave “obey” out of her wedding vows was Prince Harry’s mother, Diana, when she married Prince Charles in 1981. She vowed to “love him, comfort him, honour and keep him”.

2. The first royal wedding to be shown on TV was that of the Queen’s sister, Princess Margaret, when she married Antony Armstrong-Jones in 1960.

3. The first royal to marry a commoner (non-royalty) was Elizabeth Woodville, who married King Edward IV in 1464.

4. Meghan Markle is the first non-white person to marry into the royal family.

Rings
The design of the wedding rings won’t be known until the big day, but Meghan’s is likely to be a band made from a yellow Welsh gold called Clogau, which has been used in royal wedding rings for around 100 years.

Flowers
The flowers decorating the wedding venue will be picked from the Queen’s land and gardens. The florist will use flowers and plants that bloom in May, including white garden roses, peonies and foxgloves, as well as beech, birch and hornbeam.

Traditions
Senior members of the royal family usually get married on weekdays and the day is declared a holiday, but Prince Harry and Meghan have chosen to hold their wedding on a Saturday instead – so you won’t be getting a day off school.

There are some royal traditions the couple may want to follow, such as including myrtle in the bride’s wedding bouquet. Since Queen Victoria got married in 1840, many royal brides have carried this white flower down the aisle. It’s unlikely Meghan will throw her bouquet. Instead, as with other royal bouquets, it will be placed on The Tomb of the Unknown Warrior – the grave of an anonymous British soldier killed in the First World War – in Westminster Abbey.

DID YOU KNOW?
King Henry VIII is buried in a vault beneath the wedding venue alongside his favourite wife, Jane Seymour.
DEEP BREATHE
In the mammal world, the Cuvier’s beaked whale has the record for holding its breath underwater. In 2014, one stayed under the surface for two hours and 17 minutes.

Secrets of the super divers

Diving in crystal-clear waters, the Bajau people of Malaysia live their lives almost entirely at sea. Without training, they plunge to depths of more than 70 metres, often holding their breath for as long as 13 minutes (please don’t try this at home!). How they manage this remained a mystery for years, but scientists have finally worked out how these superhumans can survive for so long underwater.

Melissa Ilardo, from the University of Copenhagen, in Denmark, studied the Bajau to see if their bodies had evolved for life in the sea. Seals – marine mammals that also spend a lot of time underwater – have large spleens, and Ilardo wondered if this was the same for the Bajau. The spleen is a fist-sized organ in your body. It is part of your immune system (a system of organs and tissues that fight germs and diseases) and is responsible for recycling red blood cells.

After scanning volunteers and comparing the results with scans of people nearby, Ilardo found that the Bajau’s spleens were, on average, 50% larger. She believes that the organs have evolved over thousands of years to give them an advantage underwater. A larger spleen makes more oxygen available in the blood for diving – like an in-built scuba tank.

Ilardo and her team also found that the Bajau people had a gene called PDE10A. In mice, this gene is responsible for their spleen size. The Bajau are descended from a group of non-diving people that lived around 15,000 years ago, and Ilardo believes this is “plenty of time” for them to evolve to be better divers. Co-author of the research, Professor Rasmus Nielsen, from the University of California, in the US, said, “It’s a wonderful example of how humans can adapt to their local environments.”

Who are the Bajau people?

The Bajau spend around 60% of their typical eight-hour working day underwater. They dive for fish and pearls wearing only a wooden mask or goggles and a weight belt to allow them to go even deeper. They live in homes that are built on stilts over the water and in houseboats, and they only come on to land to sell their catch. It is estimated that there are around one million Bajau people living across the southern Philippines, Indonesia and Malaysia.

The Bajau people forage for seafood.
Science and technology

**DID YOU KNOW?**
You share more than 99% of your DNA with every human in the world. We also share 99% of our DNA with chimpanzees.

**The famous double-helix DNA.**

**Knotty new DNA discovered**

Deoxyribonucleic acid, or DNA, is a complex chemical found in all living things. It carries all the information about a creature’s body and characteristics, such as eye and hair colour. For years, we have known DNA to resemble a double spiral (known as a double helix) — but Dr Daniel Christ and his colleagues at Garvan Institute of Medical Research, in Australia, have discovered that DNA threads in humans can also resemble a twisted knot.

This is the first time these new structures, called i-motifs, have been found in living cells. The team believes that this type of structure could act as a kind of switch and it is thought that they could be targeted to treat diseases such as cancer.

Cancer is caused by an uncontrolled division of abnormal cells inside the body. These knotty structures of DNA could be used to turn them off and stop cancer cells multiplying.

**Uranus smells of rotten eggs**

Let’s face it, because of its rather unfortunate name, Uranus is the funniest planet in our solar system. But now it has become even funnier — because scientists have discovered it also smells really horrible.

Uranus has swirling clouds of hydrogen sulphide — a gas that gives rotten eggs their disgusting smell. The possibility that this gas was in Uranus’ atmosphere has been debated for a long time, but on 23 April a team of international researchers finally confirmed the stinky truth.

The team took a spectrograph of the planet’s upper atmosphere using the Gemini North telescope in Hawaii. A spectrograph is a tool that separates light into different wavelengths (the distance between two crests of a wave). The type of light the team looked at is called infrared. Different types of gas absorb different wavelengths of infrared light, so the scientists could look at which wavelengths were being absorbed by Uranus’s atmosphere, and from that work out how much hydrogen sulphide was in the atmosphere.

**AMAZING INVENTIONS**

**X-ray vision helmet for firefighters**

Firefighters have incredibly tough jobs. They have to burst into burning buildings, wade through smoke and pull people out, all inside just six minutes — any longer and the fumes can kill.

To help find people trapped in this toxic environment, a new helmet, called C-Thru, has been invented. It uses augmented reality (AR) to “see” through the thick smoke. AR creates computer images, which add information to the real world, when viewed through a headset. The helmet’s thermal camera detects where people are in the room based on the heat they give off. Outlines are then projected onto C-Thru’s visor. As well as allowing firefighters to see through smoke, the headset keeps their hands free so they can help people.

**Fran Scott of the Royal Institution answers your questions.**

**Where... does your tongue end?**

At one end, it’s pretty obvious where the tongue finishes: at the tip. However, the other end of the tongue is more difficult to see. You may think that your tongue is just the bit you can stick out of your mouth — this is what is measured by the Guinness Book of World Records. The current record for the longest tongue (measured from the tip to the middle of the closed top lip) belongs to Nick Stoeberl from the US, and is an impressive 10.1 centimetres long. However, the tip is not where your tongue finishes. The “body” of the tongue goes through your mouth and, right at the back, the “root” of the tongue lies in a part of the throat called the oropharynx. It is here that the tongue actually ends.

Email questions to hello@theweekjunior.co.uk with the words SCIENCE QUESTION in the subject line. See more from Fran Scott in our 100-page special edition, Science + Nature, theweekjunior.co.uk/science-nature

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5 May 2018 • The Week Junior
Photos of the week

Mirror image
The Italian Alps, reflected in the waters of Lake Braies.

Hide and seek
Two hippopotamus lie low in South Africa’s Kruger National Park.

Sea horses
A herd of Camargue horses at Saintes-Maries-de-la-Mer, France.
Photos of the week

Ripple effect
A Colombian air force helicopter during a training exercise at sea.

Don’t mind us...
This red-eyed crocodile skink isn’t wearing headphones – it’s a pair of cheeky snails hitching a ride.

Flying kicks
Girls get a kick out of Football Week

Girls’ Football Week kicked off on 23 April, with thousands of youngsters enjoying fun games and coaching sessions. The event – which is organised by the Football Association (FA), a group that runs football in England – aims to get more girls aged between five and 11 involved with the sport.

“I love playing football because it’s very active and I like running. You get to work in a team with your friends,” said Sophie Harrison, who took part in a session at Bedford Modern School. Laura Bassett, who plays for England, also joined in. “It doesn’t matter if girls have played before or not. They can try the different activities and have a great time,” she told The Week Junior.

The FA also teamed up with Disney for some extra-fun coaching sessions. Strong female characters, such as Moana and Judy Hoppins from Zootropolis, were used as inspiration for some of the special games to encourage the players and to help newcomers enjoy playing the game.

There are more than 100,000 registered female football players in England, and more than 6,700 teams. If you’d like to find out more about Girls’ Football Week, go to tinyurl.com/TWJ-footballweek

THE WEEK’S WINNERS...

Gabby and Chris Adcock
The husband-and-wife badminton players won gold in the mixed doubles at the European Championships.

Lewis Hamilton
In a dramatic race, the British Formula One driver won the Azerbaijan Grand Prix. He now leads the drivers’ standings for the first time this season.

York City Knights
The rugby league team thrashed West Wales Raiders 144-0 to set a new record high score in the English professional league.

Celtic Football Club
They picked up the Scottish Premiership title for the seventh season in a row. Celtic beat Glasgow rivals Rangers 5-0 to seal the title.
5 books about aliens

Encounter extraterrestrials with these amazing alien-inspired stories.

**Baby Aliens Got My Teacher!**
*by Pamela Butchart, Illustrated by Thomas Flintham*
*(Nosy Crow)*

When teacher Miss Jones starts being uncharacteristically nice, Izzy is sure that something fishy is going on. There can only be one explanation: the once-horrible teacher has been taken over by aliens, and now she’s trying to turn everyone else into one.

**Perijee & Me**
*by Ross Montgomery*
*(Ober & Faber)*

Eleven-year-old Caitlin discovers a strange alien creature on the shore. She takes it home, names it Perijee and begins teaching it all about the world. Soon Caitlin realises she has a problem: Perijee won’t stop growing. Before long, the authorities are trying to hunt him down. How can Caitlin try to save him?

**Phoenix**
*by S.F. Said, Illustrated by Dave McKean*
*(David Fickling Books)*

In this thrilling sci-fi story, Lucky is on the run through space. In a galaxy torn apart by war, humans and aliens are deadly enemies. In order to save the galaxy, Lucky must join forces with an alien starship crew to find the answers he seeks.

**Alienography 2: Tips for Tiny Tyrants**
*by Chris Riddell*
*(Pan Macmillan)*

This illustrated book follows Colin the alien as he shares his guide to intergalactic domination. Colin’s tips include how to select a sidekick and assembling the perfect evil outfit – plus there are extraterrestrial extras, such as a mini comic and a card game. If you’ve ever fancied ruling the universe, this is the perfect place to start!

**My Gym Teacher is an Alien Overlord**
*by David Solomon, Illustrated by Laura Ellen Anderson*
*(Nosy Crow)*

Luke knows aliens disguised as gym teachers are about to attack Earth – but no one will listen to him! Soon he finds himself teaming up with a self-styled supervillain to help him save the planet. If you liked *My Brother is a Superhero*, you’ll love this hilarious sequel.

### BOOK OF THE WEEK

**Now Make This**
*Curated by Thomas Banthaler (Phaidon Press)*

Do you love making things? If so, this cool do-it-yourself book is for you. Twenty-five designers have contributed fun projects you can make yourself, from furniture to toys to clothing. There are instructions on how to make your own drum kit, a bookshelf or crazy sculptures. You can even let loose your inner architect and build a playhouse. Each project comes with detailed how-to instructions, a list of equipment and materials you’ll need and inspiring photographs of the finished product. A useful key shows you how much the project will cost, how long it is likely to take and whether you’ll need help from an adult. You can also find out a bit more about the creators of each project – including architects, artists and graphic designers. It’s a great book for any budding designer or maker.

### WIN!

We’re giving away six copies of *Now Make This*

For a chance to win a copy, just send your name and address to competitions@theweekjunior.co.uk and put MAKE in the subject line. Closing date: midnight on Friday 11 May.

See theweekjunior.co.uk/terms for rules.

### BARNES CHILDREN’S LITERATURE FESTIVAL 2018

London’s biggest literature festival for young people takes place on 12–13 May. Authors and illustrators, including Cressida Cowell, Charlie Higson, Harry Hill and Judith Kerr, will be on hand for readings and workshops. One of the highlights is sure to be writer Lily Cole talking about the life of author Emily Brontë. Find out more at barneskidslitfest.org

### ASK THE EDITOR

**Cecily Kaiser**
Commissioning editor at *Now Make This*

**What is your best childhood memory?**
I used to visit my Grandma Molly for days on end, from the age of two. We would have the most wonderful time, but the best part was our “midnight snacks” – she would wake me up at what felt like midnight (surely it was more like 8pm), bring me down to the kitchen, and we would have marble chiffon cake together. I would eat every last crumb and often ask for seconds. She would bring me back up to my bed, bid me “Hasta mañana” (she was a Spanish teacher), and I’d fall back to sleep with a smile.

**What skill would you like to learn and why?**
Is not worrying a learnable skill? Is a strong memory a learnable skill? Is controlling the amount of chocolate I eat a learnable skill? (Now you know a little too much about me.)

**If you had a time machine, where (and when) would you go?**
Either back to see my great-grandparents who moved abroad by themselves as teenagers, to witness the strength from which I come... or forward to see my children’s children’s children’s child run, out of curiosity!
Discover Brunel’s amazing creations

Delve into the fascinating mind of one of the world’s most inspiring engineers.

Isambard Kingdom Brunel was a famous 19th-century engineer who built bridges, docks and railway lines across gorges, through hills and under rivers. A new museum exploring his life and work has now opened in Bristol at the SS Great Britain – the first large ship to be driven by a screw propeller.

Brunel was born on 9 April 1806 in Portsmouth, Hampshire, the only son of Sir Marc Isambard Brunel, an engineer and inventor who pioneered underwater tunnelling. Coming up with new ideas and creating things was in his blood. At the age of 19, Brunel Jr’s first engineering project was working under his father’s direction on the Thames Tunnel, built under the famous river from Rotherhithe to Wapping in east London.

Brunel made huge contributions to the world of marine engineering with his three ships, all of which were the largest in the world at the time of their launch. He also designed the Clifton Suspension Bridge, which spans Avon Gorge in Bristol to this day, and the Great Western Railway, which travelled between Bristol and London from 1838.

Among the 150 Brunel artefacts on display in the museum are one of his old school reports, the tools he used to help with his drawings and a diary in which he revealed insecurities about his height (he was around 150 centimetres and wore a 20-centimetre-tall hat to appear more noble). Alongside these items, Brunel’s Drawing Office has been recreated exactly how it would have been back in the 1840s. It was in this room that Brunel and his team completed the final designs of one of his most famous ships, the SS Great Britain. There are also interactive exhibits to explore, including a railway carriage from the 1830s. To find out more about the exhibition, take a look at tinyurl.com/TWJ-brunel

Check out Brunel’s three famous ships

**Great Britain**
Brunel’s SS Great Britain first set sail in 1843. At 98 metres, it was the world’s longest ship at the time. It had taken four years to build and it carried passengers between Liverpool and New York City.

**Great Western**
In 1837, Brunel designed the Great Western, which was the first steam-powered ship to cross the Atlantic Ocean. It travelled from the English city of Bristol to New York City, in the US, in just 15 days.

**Great Eastern**
In 1858, Brunel’s final ship, the 211-metre-long Great Eastern, was launched. It transported cargo and passengers to and from England and India. A mast from the ship is now used as a flagpole at Anfield, Liverpool FC’s home stadium.
Countdown to Star Wars Resistance

Disney has announced that production has begun on a new animated adventure series called Star Wars Resistance. The series – which is inspired by the look of Japanese animation – will follow young pilot Kazuda Xiono, who has been recruited by the Resistance (the secretive military force of goodies in conflict with the evil First Order). Xiono has been tasked with a top-secret mission to become a spy, keeping a close eye on the First Order’s activities.

Alongside Xiono, Star Wars Resistance will feature fan favourites Captain Phasma, Poe Dameron and BB-8, his faithful droid. Lucasfilm Animation’s Dave Filoni, who created the series, explained that the idea came from “my interest in World War II aircraft and fighter pilots. My grandfather was a pilot and my uncle flew and restored planes, so that’s been a big influence.”

Star Wars Resistance will be shown later this year in the UK on Disney XD.

Flight of the Navigator (1986)

The sci-fi hit about a boy who ends up in space.

DVD, Blu-ray, iTunes, Prime Video

The story of a 12-year-old boy who mysteriously disappears for eight years before returning to Earth without ageing a day, Flight of the Navigator was praised on its release for being an enjoyable, family-friendly film. The team making it approached Disney, in the hope they could work together. Disney initially turned them down and the filmmakers worked with some smaller companies to finish the project. Eventually, Disney were so impressed with the film they paid to distribute it to US cinemas – it was a smash hit. It was notable, too, for being one of Disney’s first family movies to include swear words.

WOW! A remake of the film has been under consideration for some time, and is now being overseen by The Jim Henson Company, creators of The Muppets.

Women’s FA Cup Final: Arsenal v Chelsea

5.10pm on 5 May, BBC One

In this year’s competition two London clubs will go head-to-head in the Women’s FA Cup Final. Will it be a rerun of the 2016 final, in which Arsenal were crowned champions, or can Chelsea avoid history repeating itself?

Carnage

8pm on 6 May, Sky One

Get ready for a battle like no other as souped-up cars face each other for fierce duels in the desert. Teams have been working on their vehicles for months and nothing is off limits when it comes to their choice of weaponry. Expect to see rams, circular saws and even flamethrowers.

Red Ape: Saving the Orangutan

9pm on 10 May, BBC Two

Over the past 10 years, medics have been on a mission to save Borneo’s critically endangered orangutans. This documentary shows the work International Animal Rescue has been doing to save these apes, such as providing medical care and releasing them back into the wild.
This week’s new apps
Get coding, boost your word skills and test your general knowledge.

**Grasshopper**  
Android / iOS (Free)

From Scratch to Tynker, there is a growing number of apps that can help you learn to code. Grasshopper is the latest to hit the app stores, developed by a team at Google as a programming app for complete beginners.

It starts with an explanation of what coding is, as well as the language – JavaScript – that this app will be teaching you. Then it’s straight into the lessons, starting with creating the code to draw shapes – a series of flags.

**Owls and Vowels**  
Android / iOS (Free)

If you’re a fan of wordy board games like Scrabble, Owls and Vowels is a fun way to test your dictionary skills on the go. It’s got more than 120 puzzles to solve, with the aim of teaching you some new vocabulary, as well as stretching your spelling skills.

**Sky Whale**  
Android / iOS

Sky Whale started out as a game featured in the Nickelodeon TV series Game Shakers. It was created in the show as a science project by two characters, then released in the real-world app stores for fans to play.

The game involves flying a whale through the sky – you may have guessed this from the title – and collecting doughnuts to keep it bouncing along.

**Tenable**  
Android / iOS (£1.99)

Tenable is a popular TV game show, and now it’s an app too. Host Warwick Davis (Professor Flitwick in Harry Potter) asks you questions about all manner of topics, from sport to music. You can play alone, but this is most fun with a group of friends or family.
WhatsApp raises its age limit

If you were looking forward to signing up to the messaging app WhatsApp when you turn 13, there’s some bad news. The app has raised its minimum-age limit to 16 years old.

“If you live in a country in the European region, you must be at least 16 years old to use our services,” is how WhatsApp explained it, in its updated rules on how people can use the app. The company has introduced the change because of new privacy rules about how companies are allowed to collect and store your personal information.

A report last year found that 24% of 12 to 15-year-olds in the UK used WhatsApp, and it is the fifth most popular social media platform for that age range. All of the app’s users will be asked to confirm their age in the coming weeks, when it prompts them to accept the new privacy rules. As with all social apps, it’s important to talk about signing up to them with your parent or carer first.

You will need to be 16 to use the app.

First Lego League’s 20th birthday

First Lego League is a competition for young people to practise their science, technology, engineering and maths (stem) skills, as well as their Lego-building creativity.

Having launched in 1998, the contest is celebrating its 20th anniversary. Every year, teams research real-world scientific challenges, such as recycling or food safety, and then come up with solutions. Teams must also design, build and code a robot to battle it out on a table-top playing field, while completing a specific task. The aim is to get hundreds of thousands of young people around the world coding.

This year’s theme is space, the same as in 1998, with a pair of challenges – Mission Moon for six to 10-year-olds, and Into Orbit for nine to 16-year-olds. The challenge will kick off later this year. To find out more or to get involved, go to firstlegoleague.org

WEBSITE OF THE WEEK

NATURE DETECTIVES

tinyurl.com/TWJ-naturedetective

Even though it might not feel like spring is here just yet, get into the spirit and visit Woodland Trust Nature Detectives to find out more about the wildlife, plants and trees that live in UK forests.

SECRETS & HACKS

TYPE TO SIRI

On an iPhone or iPad, go to Settings, then General, Accessibility and Siri, before choosing the “Type to Siri” option. Now you can type your questions rather than speaking them when quizzing Apple’s virtual assistant.

VIRAL VIDEO

THE CAKE-SERVING MACHINE

tinyurl.com/TWJ-cake

Some machines save time, but not this cake-serving contraption, which uses a candle, a hammer, a laptop, a smartphone and even a toddler to deliver a sweet treat to its inventor.
If you love animals – and eggs – maybe you should be...

Keeping chickens

If you’ve ever begged your parents for a pet, it was probably a hamster, cat or dog you were asking for. Why not consider keeping something a bit different – like chickens?

One obvious reason for keeping chickens is of course to enjoy eating their delicious fresh eggs, but there are plenty of other benefits. They’re relaxing and entertaining to watch, relatively cheap to care for and can become very tame. It’s fun to get to know each chicken and their different personalities, too.

According to Mark Smith, pet and reptile operations manager at Pets at Home, keeping chickens can be good for you in lots of ways.

“Research has shown that children who grow up with pets tend to have fewer allergies, relate better to their peers and may even do better at school,” he says.

“Feeding time for chickens can be lots of fun, especially if you can find out what their favourite treats are. Chickens flock to you at feeding time. They won’t play with you like a dog or cat would, but you will get to know their own personalities and watch how they interact with the world.”

As with keeping any pet, you should make sure you do your research first so you can look after them properly. Although it’s lots of fun, it’s also a big responsibility keeping them warm and safe from predators.

“You’ll need to look after them all year round – in the cold and wet winter weather you will need to make sure that they have somewhere warm and dry to go, and they need as much attention as they do in the warmer weather,” says Smith.

“As with all pets, they rely on us to make sure that they have everything they need to be happy and keep them safe.”

FACT
A cute chicken may look rather different to a scary dinosaur, but research shows that they are the closest living relatives of the Tyrannosaurus rex.

“CHICKENS ARE GREAT FOR ANY FAMILY”

“I’ve been keeping chickens since I was two. I love getting the fresh eggs and going to feed them. My dad and I like to cook together and the eggs have a lovely colourful yolk and taste wonderful. I would recommend it to everyone: chickens are great for any family, small or large, and they are relaxing to watch. It does take hard work and perseverance. You have to clean their houses regularly, feed them and give them water daily. Make sure you keep them in a secure run or hen house so foxes can’t get them.”

Name: Olivia
Year: 6

HOW, WHAT, WHERE?

How can I make a difference?
Visit the British Hen Welfare Trust at bhwt.org.uk to learn more about hens that were bred to lay eggs for shops. It saves around 50,000 hens a year from slaughter by rehoming them in caring pet homes.

What do I need to buy?
As well as a coop and a pen, chickens need feeders, drinkers, perches, bedding, toys and treats. Head over to Pets at Home for a list of the things you’ll need, at tinyurl.com/TWJ-chickenshopping

How else can I get involved?
Ask a teacher to contact the British Hen Welfare Trust to arrange for a volunteer to visit your school for a demonstration with some chickens. You can find out what to expect at tinyurl.com/TWJ-chickenworkshops

Learn more...

Visit the RSPCA’s website for more on feeding chickens, preparing their environment and looking after them, at tinyurl.com/TWJ-chickencare

Hens flock to you at feeding time.
How to...

Bake sweet potato and feta rolls

What you need
- 1kg sweet potatoes
- 1 onion
- 55g walnuts
- 200g feta cheese
- ½ tsp chopped rosemary
- Pinch of ground cinnamon
- Salt and pepper
- 500g puff pastry
- 1 egg
- 1½ tbsp caraway seeds
- Potato peeler
- Three baking trays
- Baking parchment
- Fork
- Large bowl
- Pastry brush

Instructions
First, peel the sweet potatoes and preheat the oven to 180°C/fan 160°C/gas mark 3. Line two baking trays with baking parchment paper. Finely slice the onion and chop the sweet potatoes into two-centimetre pieces. Bake for 30 minutes and set aside to cool. Roast the walnuts on a small baking tray in the oven for five minutes then allow to cool before chopping them. Increase the oven temperature to 200°C/fan 180°C/gas mark 4. Using a fork, mash the sweet potato in a large bowl. Crumble the feta into the bowl and add the onion, walnuts, rosemary and cinnamon. Season with salt and pepper, and use your hands to mix. Roll the pastry out, cut into a large rectangle and then cut again into two long rectangles. Place half of the potato mixture down the middle of each pastry rectangle. Beat the egg and brush it on to one edge of the pastry. Fold the other side of the pastry over onto the egg-brushed edge. Press down to seal the mixture inside. Brush the pastry with egg and sprinkle the caraway seeds on top. Cut each pastry into 8–10 small rolls, place the rolls on a baking tray and cook in the oven for 15–20 minutes.

Make your own rainbow

What you need
- Bowl, dish or pan
- Water
- Mirror
- Piece of white paper
- A sunny day!

Instructions
Did you know a rainbow appears when light gets split into seven colours (red, orange, yellow, green, blue, indigo and violet)? This usually happens because the light is passing through something that bends it, such as a glass, mirror or rain. To create your own rainbow, fill a bowl, dish or pan halfway with water. Place the mirror (measuring at least 13 centimetres by 13 centimetres) inside, so that half is in the water and the other half sits above the surface. Place it near a window that has direct light coming in. Hold your paper above the catcher until you locate the rainbow. Experiment by holding the paper at different distances to see what happens.

Build a chair bird feeder

What you need
- 32 lolly sticks
- Scissors
- Glue
- Fabric
- String
- Bird feed

Instructions
To make the base
1. You will need eight lolly sticks with their rounded ends cut off and eight lolly sticks that have been cut in half.
2. Take two long sticks and two half sticks and use them to form a rectangle. Glue them in place.
3. Cut a piece of fabric the same size as the rectangle and glue it on top.
4. Use the remaining sticks and half-sticks to create three more rectangles and glue them on top of each other, with the fabric-covered rectangle at the bottom.
5. Now your base is complete, use the rest of the lolly sticks to create the back and arms (use the picture to help you).
6. Glue string to the arms, fill the base with bird feed and hang it up outside for hungry birds to find.

Got an idea? Made something cool? Share it with us at hello@theweekjunior.co.uk

5 May 2018 - The Week Junior
Editor’s note
Do you still have a bedtime story read to you, or do you like to get stuck into books by yourself? Whatever you prefer, it’s likely that losing yourself in a story is a way of getting away from the real world for a little while. But what if you can’t read, have no books or don’t have anyone to read to you? For some children who have escaped the war in Syria a story at bedtime is being provided by a radio station that has been set up just for them. Radio Dodo was set up by a Canadian woman called Brigite Alepin, who wanted to do something that would help make the lives of refugee children a little bit easier. For an hour each week it broadcasts programmes created especially for young people, offering advice, information and entertainment, including songs and stories. It’s a simple idea that is making a big difference. You can find out more about it at radio-dodo.info. If you’ve done something to help others, we’d love to hear about it. Write to us at hello@theweekjunior.co.uk

Anna Bassi
Editor, The Week Junior

Don’t ride elephants
In the holidays, we went to Thailand. We stayed near a beach and every day there would be elephants paraded down the beach. At first we wanted to ride on the elephants too, but then our mum and dad told us about a tradition called phajaan and it really changed our minds.

Phajaan means crushing. It is used to describe the way that elephants are trained to be ridden or do tricks. It breaks their spirit. Also, elephants don’t have strong backs, and they would never do tricks like standing on their head in the wild.

“We wrote about phajaan in the sand to try to explain to people how bad it is, and we are going to write to the Thai government.

“Please don’t EVER ride elephants. If you want to help them, go to an elephant sanctuary instead, or support charities like worldwildlife.org”

What’s going on at your school? Have you taken part in a sporting event, put on a show or done something fun to raise money? Whatever you’re up to, we want to hear about it at hello@theweekjunior.co.uk

GET INVOLVED

Wild Futures
Wild Futures began opened its doors in 1964 as The Monkey Sanctuary. Based in Cornwall, it was originally a haven for woolly monkeys that had been rescued from the pet trade, but is now a home for 37 monkeys and marmosets rescued from situations of neglect and abuse. The charity is committed to the protection of primates and their habitats worldwide. Wild Futures works closely with a number of governments to encourage positive change for primates. For more information, swing on over to wildfutures.org

BaaPea Young Presenters
Do you have a passion for presenting? The British Academy of Film and Television (Bafta) is looking for this year’s Young Presenter to introduce Bafta Kids content, and to film at a variety of locations during the year. The lucky winner will also get to present an award at the Bafta Children’s Awards ceremony in November, as well as report from the set of a popular children’s television programme. For your chance to become their next Young Presenter, entrants aged seven to 14 must create a short “How to” video. You could interview someone about their secret talent or hobby, or show audiences how to perform a trick or create something, such as a mask or cake. The choice is yours! To find out more before the 14 May deadline, visit baftakids.org/competitions/young-presenter-competition-2018

GET INVOLVED Email your news, views and pictures to

The Week Junior - 5 May 2018
“I followed the instructions to create your own water balloon pump from issue 122.” Georgia, Year 6

“I was looking through my old issues and found lots of fun things for me and my brothers to do. We made the colour wheel from issue 41.” Libby, Year 5

“Over the Easter holidays we took our first trip to Taiwan to experience Asian culture and got to visit the country’s tallest building, Taipei 101.” Ryan, Year 7, and Chloe, Year 2

Follow The Week Junior on Popjam @TheWeekJunior. You can download the free Popjam app from the App Store or Google Play.
Arsène Wenger has announced that he will leave his job at the end of the football season. You said...

“Good luck in the future”
@iglover567

“I am an Arsenal fan and I don’t want him to leave”
@ArsenalFan

“Can’t believe it”
@emilovin_07

Last week, our Big debate question was “Should people have the right to be forgotten online?” You said...

“If they have done something wrong which has upset or made somebody angry then yes”
@PolarBear

“If of course you should be able to delete things”
@yummypasta

“It all depends on what you are deleting”
@poxoutta122

“It depends”
@floe

Tell us what you think of this week’s issue. We’ll give you a shout-out if your post is printed here.

Anagrams: instrument, astronaut

Teacher of the Week
Teacher’s name: Miss Seifert
School: Cubitt Town Junior School, London

“Miss Seifert is very funny and kind. She explains things very carefully so that we can understand. She takes us on some really nice trips. I think she is the best teacher.”
Jannath, Year 3

If we pick your teacher as Teacher of the Week, we’ll send your school three free issues of The Week Junior. Send your nominations, along with a picture of your teacher and your school’s full name and address, to hello@theweekjunior.co.uk

Puzzles page answers

1. Noodles
2. False, he will visit on 13 July
3. Nan
4. 26.2 miles
5. Seattle Seahawks
6. False, it’s more than 12,000
7. a) Windsor Castle
8. Rotten eggs
9. b) China
10. Lewis Hamilton
11. True
12. c) Bristol
13. 20th anniversary
14. True
15. a) Scotland

Anagrams: instrument, astronaut
Puzzles

Word fill in

All of these US states fit in the grid. Can you work out where each place name goes to complete it?

<table>
<thead>
<tr>
<th>4 letters</th>
<th>8 letters</th>
<th>5 letters</th>
<th>9 letters</th>
<th>10 letters</th>
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<tbody>
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<td>Delaware</td>
<td>Kentucky</td>
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ANAGRAMS

Rearrange the scrambled letters to form a word.

MINERSTUNT
(CLUE: Sounds great)

AUNTROTAS
(CLUE: A person who goes out of this world)

Number tower

Place a number in every square to complete the number tower. The value in each square is the sum of the numbers in the two squares directly beneath it.

WIN!

books and a family ticket to Hay Festival. Nesta is inviting you to crack the code for a chance to win one Brain Training Puzzles for Kids puzzle book. Send your name, address and answer to the sum to competitions@theweekjunior.co.uk with MUDDLED MESSAGE in the subject line. Closing date: midnight Friday 11 May. All correct entries will go into a draw to win a family ticket to Hay Festival.

Muddled Message

Rearrange the scrambled letters to form three words and then complete the sum.

WOT

SMITE

ERETH

See theweekjunior.co.uk/terms for rules. See mathsmission.challenges.org/theweekjunior for prize terms and conditions.

FRAN BENNETT

Founder, Mastodon C

What does your company do?

We create software and systems that predict important things for the Government, like how many schools they need to build, or spotting patterns in hospital information that could be used to keep patients safer.

How do you use maths in your job?

Our systems are based on something called Machine Learning and artificial intelligence – when we are asked to build something, we have to creatively think about what types of maths models we could use to come up with an automatic answer.
Dropping in to the local shop
A tiny shop for rock climbers has opened in Shiniuzhai National Geological Park in Hunan, China — but this is no ordinary high-street shop. It’s perched against a cliff — 100 metres up in the air — so that rock climbers can shop mid-climb. The shack-like store has only been open for a couple of weeks, but business is already booming, with plenty of climbers swinging by to pick up items such as bottles of water, energy drinks and snacks. A spokesperson for the shop said, “We offer value-for-money products for rock climbers to help them maintain physical endurance… our prices are the same as regular convenience stores.” You can even pay for products using your smartphone so you don’t need coins.

Real or Rubbish?
Robot votes in mayoral election
A robot was recently allowed to vote in the mayoral election for the Japanese city of Tama. Posters of candidates had been popping up all over the city in recent months, and Michihito Matsuda — described as a humanoid robot with female features — wanted to have a say about who should run the city. She told reporters in Tama, “Just because I am not a human, doesn’t mean I should not be able to share my vote – I understand what’s going on and I am part of this city.” What do you think? Was a robot really allowed to vote in an election?

Cats love Labo kits
It seems cats are breaking the internet again, thanks to their love — or perhaps hatred, in some cases – of Nintendo’s Labo. This is a series of customisable cardboard craft kits that can be brought to life with the Nintendo Switch. Most cat owners will know that our feline friends are lovers of cardboard and boxes, so the Labo has proved to be a big hit. Countless images of cats exploring the Labo have now been put online by their owners. One gamer tweeted, “Labo is just another way for children to annoy the cat.”

I’m watching your back
Have you ever been for a run, but wished you were just slouching in front of the TV instead? Well, a chain of gyms has come up with a plan to give their customers the best of both worlds. It is offering fitness fans the chance to jog with a running coach who has a tablet strapped to their back. Customers are given wireless headphones and are then challenged to keep up with their coach as they enjoy their favourite show.

Extreme stone-stacking skills showcase in Scotland
An extreme competitive stone-stacking weekend took place in Dunbar, Scotland, on 21 April. Competitors from all over the world gathered at Lauderdale Park and Eye Cave Beach to show off their skills and create all sorts of gravity-defying rock art for the European Stone Stacking Championships. The weekend’s challenges varied from "most artistic balance" to "most stones balanced one on top of the other". The winner — Pedro Duran from Spain — won money towards flights to the World Rock Stacking Championship in Texas, US.
Quiz of the week

How much of this week’s news can you remember?

1 What type of food did North Korean leader, Kim Jong-un, give South Korean leader, Moon Jae-in as a gift?
   a) Pizza
   b) Noodles
   c) Nothing

2 True or false? US president, Donald Trump, will visit the UK on 24 May.

3 Which Thai town recently hosted its first Elderly Games?

4 How long is a marathon?
   a) 2.62 miles
   b) 26.2 miles
   c) 262 miles

5 For which NFL team has Shaquem Griffin been picked?

6 True or false? There are more than 21,000 known species of ant on Earth.

7 Where are Prince Harry and Meghan Markle set to marry?
   a) Windsor Castle
   b) Edinburgh Castle
   c) Bodlarm Castle

8 What is Uranus thought to smell of?

9 In which country did kung-fu masters rehearse their performance for the Shaolin Zen Music Ritual?
   a) Colombia
   b) China
   c) Cameroon

10 Who won the Azerbaijan Grand Prix?

11 True or false? One of the skills that commissioning editor Cecily Kaiser would like to learn is having a strong memory.

12 Where has a new museum celebrating the life and creations of Isambard Kingdom Brunel opened?
   a) Brighton
   b) Bournemouth
   c) Bristol

13 Which anniversary is First League Lego celebrating this year?

14 True or false? Chickens are the closest living relative of the Tyrannosaurus rex.

15 Where did an extreme stone-stacking competition recently take place?
   a) Scotland
   b) Wales
   c) England
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