



## Humans have salamander-like abilities

Humans have a salamander-like ability to regrow cartilage in joints, a team of scientists have found. Salamanders are the only adult vertebrates able to regrow their limbs at any time in their life. If a salamander gets in a fight, it may surrender its tail to the enemy as a defence mechanism. In a few weeks' time, it can grow a new one. During their research, the scientists from Duke Health worked out the age of cartilage throughout the body. This analysis revealed that cartilage has different ages depending on where it is in the body: young in the ankles, middle-aged in the knees and old in the hips. They hope that understanding how this regrowth works in humans will lead to new treatments for joint disorders and in the future possibly methods to grow human body parts.

*Would you like to have an animal like ability? Which one?*



*Pictured: A typical Fire Salamander.*

## NASA's new spacesuits unveiled



*Pictured: NASA's administrator, Jim Bridenstine, introduces NASA's new lunar spacesuit, worn by spacesuit engineer, Kristine Davis, taken from Jim Bridenstine's Twitter page.*

NASA has showcased two spacesuit prototypes, one for launch and re-entry, and one for exploring the Moon's South Pole. The first woman and next man to explore the moon will wear them as part of the Artemis program. NASA say the spacesuits are safer, smarter, more flexible and more comfortable than ever. The white, red and blue spacesuit called the Exploration Extravehicular Mobility Unit is designed to fit all astronauts, withstand over 120°C, remove toxic gases and regulate temperature. It has gloves with heaters to keep fingers warm and the headset even contains a small foam block so the astronaut wearing it can scratch their nose! Also unveiled was an orange flight suit with helmet, called the Orion Crew Survival System, which has been designed to get the crew to the moon and back safely.



## World's longest flight lands in Sydney



*Pictured: The new Boeing 787-9 Dreamliner taken from the Qantas Twitter page.*

The world's longest flight has successfully been tested. 50 passengers and crew travelled non-stop for 19 hours and 16 minutes from New York to Sydney. Qantas Flight 7879 travelled 10,066 miles touching down in Australia with 70 minutes of fuel to spare. The journey on a new Boeing 787-9 Dreamliner was an experiment to see how ultra-long-haul travel affects people on board the aeroplane. A team of researchers monitored lighting, activity, sleep patterns and how much the passengers ate and drank. They also kept a close eye on the crews sleep hormone levels and tracked the brain patterns of pilots during the flight. The passengers took part in exercise sessions and even danced to the Macarena to try to maintain good circulation while on the aircraft.

*Do you think ultra-long-haul flights are a good idea?*

## Village made from fruit cake

A brilliant cake maker, Lynn Nolan, has spent three months recreating an entire Derbyshire village out of fruitcake! Her to scale copy of the village of Eyam, made from 65 cakes, includes the village pub, post office and church. It is on display in the village and will be auctioned to raise money to support the local community bus service, run by Bakewell & Eyam Community Transport. She used 608 eggs, 30kg of butter, 33kg of flour, 210kg of icing and 37 tubs of glace cherries. Lynn even made individual pieces of fruit to display at the mini Eyam greengrocers, a portion of chips, a jacket potato as well as tiny drinks for the pub. Lynn said: "I'm delighted with how it has come out; everything looks great."

*What would you like to create from cake?*



*Pictured: Lynn Nolan pictured with the recreation of the village taken from John O'Brien MBE's Twitter page.*

/ think...



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