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THE DAY
Build a better world

News Detectives

TODAY'S BIG STORY

The luxury liner making flying green

As more people become aware of the environmental cost of flying, one company has come up with an eco-friendly alternative that could change travel forever.



Green skies: Airships have 75% fewer emissions than planes of the same size.

Ever since planes were invented, they have made travel easier. They can cross seas and mountains. Trips abroad are easier. Holidays are cheaper.

But there is one problem. A plane releases harmful **greenhouse gases** when it burns

fuel. **Activists** say it is time to stop flying.

Now, one British company has a solution – airships. They hope to take people on short journeys between cities by 2025. The airship is filled with **helium** to make

it float. It can travel at **91 mph** and is bigger than a jumbo jet.

In less than five years, there could be as many as 12 flying to European cities like **Oslo** and **Stockholm**. And the company hopes to move into the US as soon as possible.

You decide: Should airships replace planes?

YES!

Airships are the future of holiday travel! They are more spacious, more comfortable and better for the planet.

NO!

Airships are fun, but they are slower and less convenient than planes. We should focus on making planes greener instead.

KEY WORDS

Greenhouse gases: Gases that trap heat in the Earth's atmosphere. They cause global warming.

Activists: People who campaign for social or

political change. Greta Thunberg sailed to New York for a meeting instead of flying.

Helium: A very light gas used in balloons to make them float. Old airships used hydrogen, but it

burnt easily. Helium does not burn.

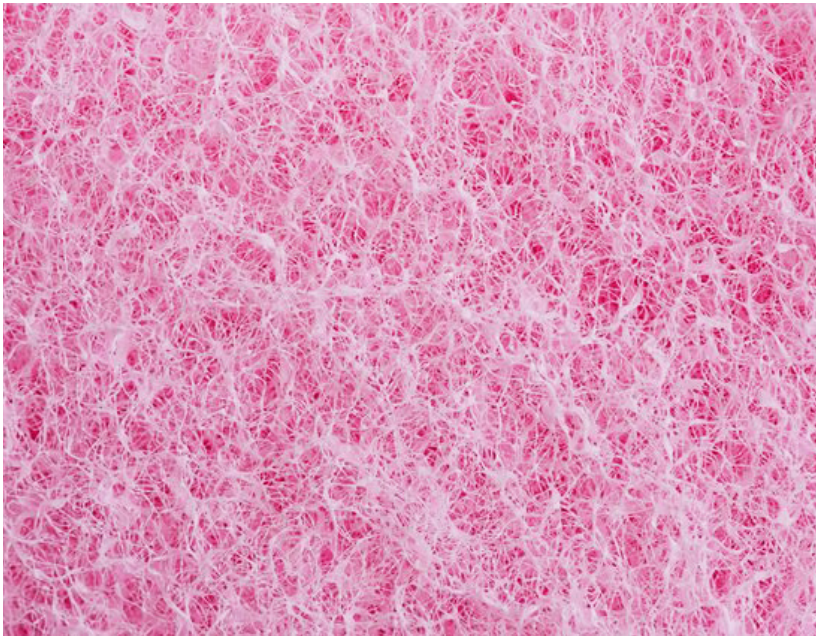
91mph: A normal passenger jet plane travels at up to 500mph.

Oslo: The capital of Norway.

Stockholm: The capital of Sweden.

Detective zone

Picture puzzle



Can you work out what this is?

- A sponge
- Candyfloss
- Pink fabric

Spot the fake!

Only one of these news stories is fake. Which one?

- “Robo-fish to remove microplastics from seas”
- “Moths’ wings inspire sound-absorbing wallpaper”
- “Great white shark spotted in Irish Sea”



There are dozens of ways to travel between cities – but not all of them are good for the planet. In this challenge, you will design your own new eco-friendly flying vehicle.

Step 1: Start your ideas flying by thinking about what your vehicle will look like, how it travels and how it’s eco-friendly. Why not give it a name too!

Step 2: Create your flying vehicle! You can draw a picture of it or, if you have time, use craft materials and LEGO bricks to make a real version of your green machine.

Did you know...?

- The first airship was invented in 1852.
- Airship travel was common until the 1930s

Share your genius



Show your work to your class



Upload a photo of your work to the Build the Change gallery by scanning the QR code and have your work displayed to inspire real-world change.

This worksheet is available online every weekday at 6am from theday.co.uk/newsdetectives. For any feedback or help please contact newsdetectives@theday.co.uk. Thank you.

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Teacher notes

TODAY'S BIG STORY BACKGROUND

The company behind the Airlander airships said it has received its first commercial order from an airline group.



Credit: BBC

Hybrid Air Vehicles (HAV) said European-based Air Nostrum Group had reserved 10 Airlander airships for delivery from 2026.

HAV, which developed Airlander at Cardington airfield in Bedfordshire, is expected to begin manufacturing in South Yorkshire.

The firm said 1,800 jobs would be created as a result of the interest.

HAV said Airlander 10 will cut flight emissions by up to 90% for journeys across Air Nostrum's regional routes in Spain.

The airships, which stay aloft using helium and electricity, have been commissioned to seat 100 people.

According to HAV's website, hybrid aircraft fly due to a combination of aero-

dynamic lift (like an aeroplane), lifting gases (like an airship) and vectored thrust (similar to a helicopter).

Airlander generates up to 40% of its lift from aerodynamics by the passage of air over the hull and the remainder from buoyant lift from the helium.

The Secretary of State for Business, Energy and Industrial Strategy, Kwasi Kwarteng said: "Hybrid aircraft could play an important role as we transition to cleaner forms of aviation, and it is wonderful to see the UK right at the forefront of the technology's development."

Carlos Bertomeu, Air Nostrum's president, said: "We are exploring each and every possible way to reduce our carbon footprint.

"The Airlander 10 will drastically reduce emissions and for that reason we have made this agreement with HAV.

"Sustainability, which is good news for everyone, is already a non-negotiable fact in the daily operations of commercial aviation."

Tom Grundy, chief executive officer of Hybrid Air Vehicles, said: "Our partnership with Air Nostrum Group, as the launch airline for Airlander 10, leads the way towards that future.

"As countries like France, Denmark, Norway, Spain and the UK begin to put in place ambitious mandates for the decarbonisation of domestic and short haul flight, Hybrid Air Vehicles and Air Nostrum Group are demonstrating how we can get there - and get there soon."

ANSWERS TO PUZZLES

Picture this!

A sponge

Spot the fake!

"Great White Shark spotted in Irish Sea"



This week's challenge is part of the LEGO® Build the Change programme. It can be done at school or as homework, and parents can help upload photos of pupils' work to the online gallery.



Visit the gallery at <https://bit.ly/btcgallery> and feel free to use it as discussion point in class.

Build the Change is the LEGO Group's learning through play-based sustainability program, encouraging children to become engaged global citizens with voices that are heard.

This worksheet is available online every weekday at 6am from theday.co.uk/newsdetectives. For any feedback or help please contact newsdetectives@theday.co.uk. Thank you.