

Mini Science Newsletter

nature india



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Rupsy Khurana

Hello young scientists!

Welcome to the 5th MINI

**(acronym for Macmillan Education India and Nature India)
Science Newsletter!**

Here, you'll find exciting discoveries happening right now in India's science. Think of this as a fun way to go beyond your school science books, which do a great job of teaching you the fundamentals.

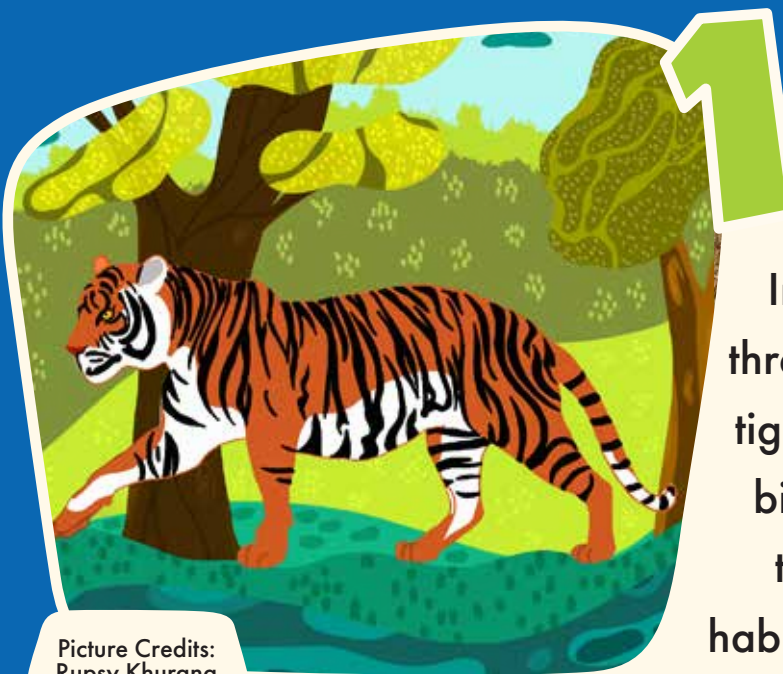
Science is happening all around you every day. This newsletter will help you discover how Indian scientists are making new inventions, solving big problems, and exploring the world in ways that can change our future. The newsletter also brings to you the latest news concerning India's science and scientists.

In this issue, we feature the growing numbers of India's big wild cats, AI tools that can understand different languages and India's new space adventure on the Axiom-4 mission.



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Freepik.com

India's tiger conservation is a roaring success



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Rupsy Khurana

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**India's tiger
numbers are
bouncing back**

India is now home to nearly three-fourths of the world's wild tigers. From 2008 to 2016, the big cat numbers doubled. But tigers still face dangers like habitat loss, deforestation, climate change and illegal hunting. India's love and respect for nature have helped people near forests and tigers share space and live peacefully. Thanks to this, the tigers have made a strong comeback to the forests of India.

Chandrayaan-3 is digging up more moon secrets



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NASA Science

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**Chandrayaan-3 site
is ideal for sampling
sulphur-rich ancient
materials**

India's Chandrayaan-3 landed near the Moon's south pole in August 2023. It has now found that there is much more sulphur in the soil than previously concluded by other space missions like the US Apollo mission. Scientists think these old rocks could hold secrets to how the Moon was formed. Using the Pragyan rover, they found clues that could rewrite what we know about our Moon's history.

Can India grow more genetically modified plants?

3



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**India must develop a
GM crop plan based
on science**

India is putting together a smart plan for using genetically modified (GM) crops. This plan will include voices from scientists, farmers, and the public. The idea is to use science to help grow food better. Long ago, the Green Revolution worked because the whole country believed in science. Now, with climate change making farming harder, it is time to come together again and ask: how can we grow food smarter, based on scientific evidence, together?

Axiom-4 is India's new space adventure

4



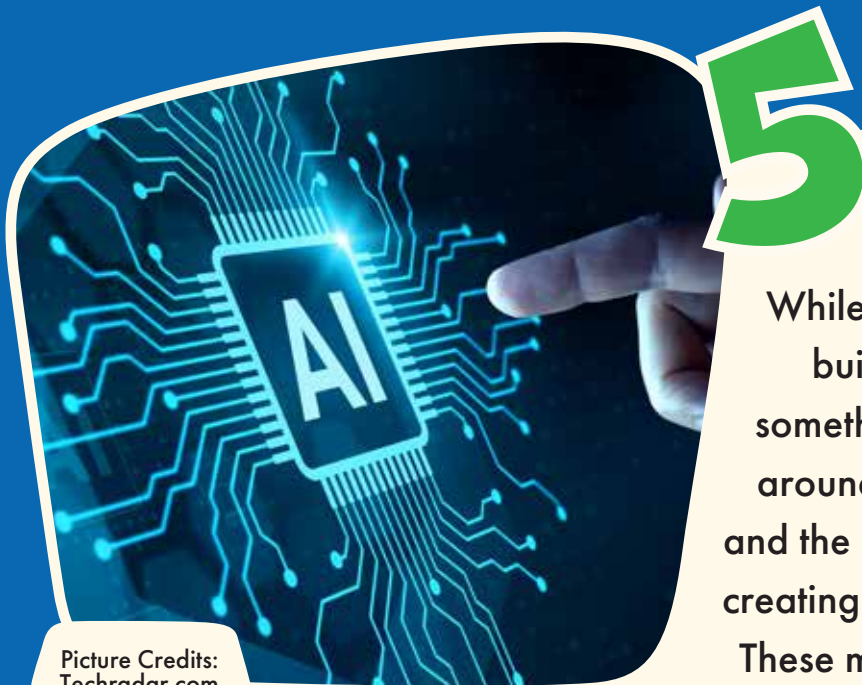
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**In microgravity,
even simple
experiments can
reveal big insights**

The Axiom-4 is a space mission bringing countries together to explore and learn. On the mission scheduled for June 2025, Shubhanshu Shukla, an Indian Air Force pilot turned astronaut, will do some serious science experiments in space. He will study tiny microbes called cyanobacteria that can make oxygen, super helpful for long space journeys. He will also test how floating in space (microgravity) affects astronauts' thinking and screen reading. These experiments will help us build smarter spaceships and get ready for India's forthcoming crewed space mission Gaganyaan.

AI tools that speak your language



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Techradar.com

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**As AI giants duel, the
Global South builds
its own brain power**

While the US and China race to build the smartest AI tools, something amazing is happening around the world. In Africa, Asia and the Middle East, researchers are creating their own special AI models. These models can understand local languages and know about the culture, making them super easy for everyone to use. Do read about e-vikrAI, India's first government-backed AI initiative that can generate written and audio descriptions for commercial products in local languages.



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Fun Fact

There's a huge diamond in space – 10 billion trillion trillion carats in size – called Lucy. It is the largest natural diamond mostly made of crystallized carbon floating among the stars.



Thanks to everyone who sent in their guesses to the question in the last issue.

Question

Do you know there are animals in the ocean that can heal their wounds super fast, thanks to their extraordinary immune system?

Answer

For sea animals like sharks and rays, healing cuts quickly is important to stay safe and keep swimming. Sharks and rays are really good at this because their unique immune system not just helps heal injuries but protects them against microflora in water.

**Whether you nailed it or not,
keep exploring interesting science facts like these!**

**Do you have a fun fact to share
or perhaps you are working on a
cool science project?
We want to hear from you.**



Write to us at

macmillanmarketing@macmillaneducation.com

What are you curious about?

If there is something you are curious about, ping us at

<https://macmillaneducation.in/>

We will try to include it in the next issue!

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