

“The more clearly we can focus our attention on the wonders and realities of the universe about us, the less taste we shall have for destruction.”

— Rachel Carson

KNOWLEDGE DAILY

27-09-21



Leaders discuss various issues at first in-person Quad Summit



Nations Security Council. He also offered support for India's entry into the Nuclear Suppliers Group

What is the Nuclear Suppliers Group?

The Nuclear Suppliers Group or NSG is a 48-member grouping that regulates global nuclear commerce.

Prime Minister Modi is in the US for the first in-person Quad Summit (Quadrilateral Security Dialogue). This summit is a meeting of the top leaders of India, Japan, Australia and the US.

On Friday, the four leaders pledged to pursue a free and open Indo-Pacific region. It was a two-hour meeting at the White House in Washington D.C. The White House is the official residence of the president of the US.

The leaders took steps to expand vaccines worldwide. Japanese PM Yoshihide Suga told reporters the

countries agreed to cooperate on vaccines, clean energy and space, and to hold a summit meeting every year.

The Quad Summit leaders spoke about democratic values and peaceful resolution of disputes. Moreover, they also said they would give support to small island states, especially those in the Pacific Ocean.

Moreover, at the start of the Quad Summit, US President Joe Biden announced a fellowship programme

to allow students from the four countries to pursue degrees in STEM at US universities. STEM stands for science, technology, engineering and mathematics.

India and the US

In a separate meeting between the two countries, US President Biden has reiterated (reconfirmed) America's support for India's permanent membership to the United

Remains of world's oldest forest found in New York

Scientists recently said that they have discovered the world's oldest forest in Cairo, New York in the US. They have found fossils of 385-million-year-old root networks which belonged to the world's oldest tree-like plants.

They reconstructed the fossils in a nearby town and found that there were three kinds of trees found in the forests.

What were the trees that lived in the world's oldest forest? Some trees known as cladoxylopsids were 10 metres large in size, and they look like celery trees.

But the Cairo site is 2 or 3 million years older than Gilboa, making it the world's oldest forest. Moreover, these eospermatopteris trees were in existence for more than 16,000 years. The researchers have also found evidence of deeper root systems that belong to the archaeopteris family. These trees have wooden branches and true leaves that can photosynthesize.

The new findings also suggest that the earliest trees could colonize (live in) a range of environments.



DID YOU KNOW ?

- Earth has more than 60,000 known tree species.
- The CAG is ranked 9th and enjoys the same status as a sitting judge of the Supreme Court of India in order of precedence.
- There are more than 500 active volcanoes in the world.

The first computer programmer – Ada Lovelace

Who was Ada Lovelace? Ada Lovelace was a computer genius. Computers are a part of our lives today. But Ada was born in 1815 when computers were not even invented!

Her life --Ada or Augusta Ada King (10 December 1815 – 27 November 1852) was the daughter of the famous poet Lord Byron. Her mother made sure that Ada was well educated in mathematics. And Ada showed intelligence and understanding of mathematics from a very young age.



She met Charles Babbage when she was 17 and worked closely with him. Charles Babbage is also called 'the father of computers'. Ada was most interested in his Analytical Engine,

which was a mechanical computer designed by him.

Computer programmer

In 1843, Ada published a translation of an article on Analytical Engine written by Italian engineer Luigi Menabrea. She added a lot of her own notes to the article, calling them 'Notes'. These Notes were her most important work because they described complicated mathematical problems. For her writings in the Notes, she is also called the first computer programmer.

She was one of the first people to understand that computers could be used for many things. Before that, most mathematicians thought that computers were best for calculating numbers.

Sadly, she died very young; in 1852 at the age of 36. But Ada Lovelace was truly a woman ahead of her time and continues to be an inspiration for all women today.

SINCE & FOR



- We use **FOR** to talk about a length of time, a period of time.
- We use **SINCE** to talk about a point in the past, a specific point in time.

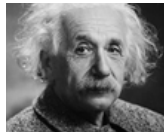
- I have worked here **for** 8 years.
- You have played football **for** ten years.
- We have taught at this school **for** a long time.
- He has been a student **for** eight years.
- They've been married **for** 30 years.
- She has been in prison **for** 6 months.
- I haven't been on holiday **for** ages.

- He has lived here **since** 1993.
- They have been at the hotel **since** last week.
- I haven't ridden a horse **since** I was 9.
- You have worked here **since** you left your school.
- I haven't been on holiday **since** last year.
- **Since** his wife went away, he has been waiting for her.

Today in History

Historic Publication

1905 The physics journal *Annalen der Physik* publishes Albert Einstein's paper "Does the Inertia of a Body Depend Upon Its Energy Content?", introducing the equation $E=mc^2$.



Theoretical Physicist
Albert Einstein

1962 Rachel Carson publishes 'Silent Spring' about the deleterious impacts of pesticide use in the US on the environment



Marine Biologist and Writer

'Miracle house' escapes destruction in volcano eruption

Last week, the Cumbre Vieja volcano eruption occurred on La Palma island. This is part of the Canary Islands of Spain. The volcano's eruption on Sunday led to the shooting of lava hundreds of metres into the air. It burned forests and lava (hot, liquid rock) has destroyed many houses.

Amazingly, a single house on La Palma island has managed to escape the lava from the volcanic eruption. People are calling it the "miracle house" on social media.



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WORD OF THE DAY

Today's Word of the Day is "pin-na-**cle**" and its meaning is the most successful point; the culmination:

Pronunciation : 'pinək(ə)l

Usage: 'he had reached the pinnacle of his career

Antonyms
nadir, trough

Origin

Middle English from Old French, from late Latin pinnaculum, diminutive of pinna 'wing, point'.

Synonyms :

peak, needle, crag, tor, summit, top, mountaintop, crest, apex, tip, vertex
aiguille, serac, puy
North American hoodoo
technical inselberg

Hindi Meaning

PINNACLE= शिखर [pr. {shikhar}](Noun)

Usage : Snow covered the pinnacle of mountain.

उदाहरण : मैच में जीत के बाद वह एक लहर के शिखर पर था

ENGLISH CLUB

Phrasal Verb-opt in

Meaning: If you opt in, you choose to accept something, or do something, that is offered to you as an option.

Usage: When they're purchasing a product online, we give our customers the chance to subscribe to our newsletter, but we only send it to those who've opted in.

Today's Idiom

much ado about nothing

Meaning: If you say something is much ado about nothing, you think it's an overreaction to something that shouldn't have caused so much trouble.

Usage: All this nonsense about status and "losing face" is much ado about nothing as far as I'm concerned.

Saying of the Day

As soon as man is born he begins to die

The process of dying starts at birth. This saying reminds us of our own mortality, whatever our age.