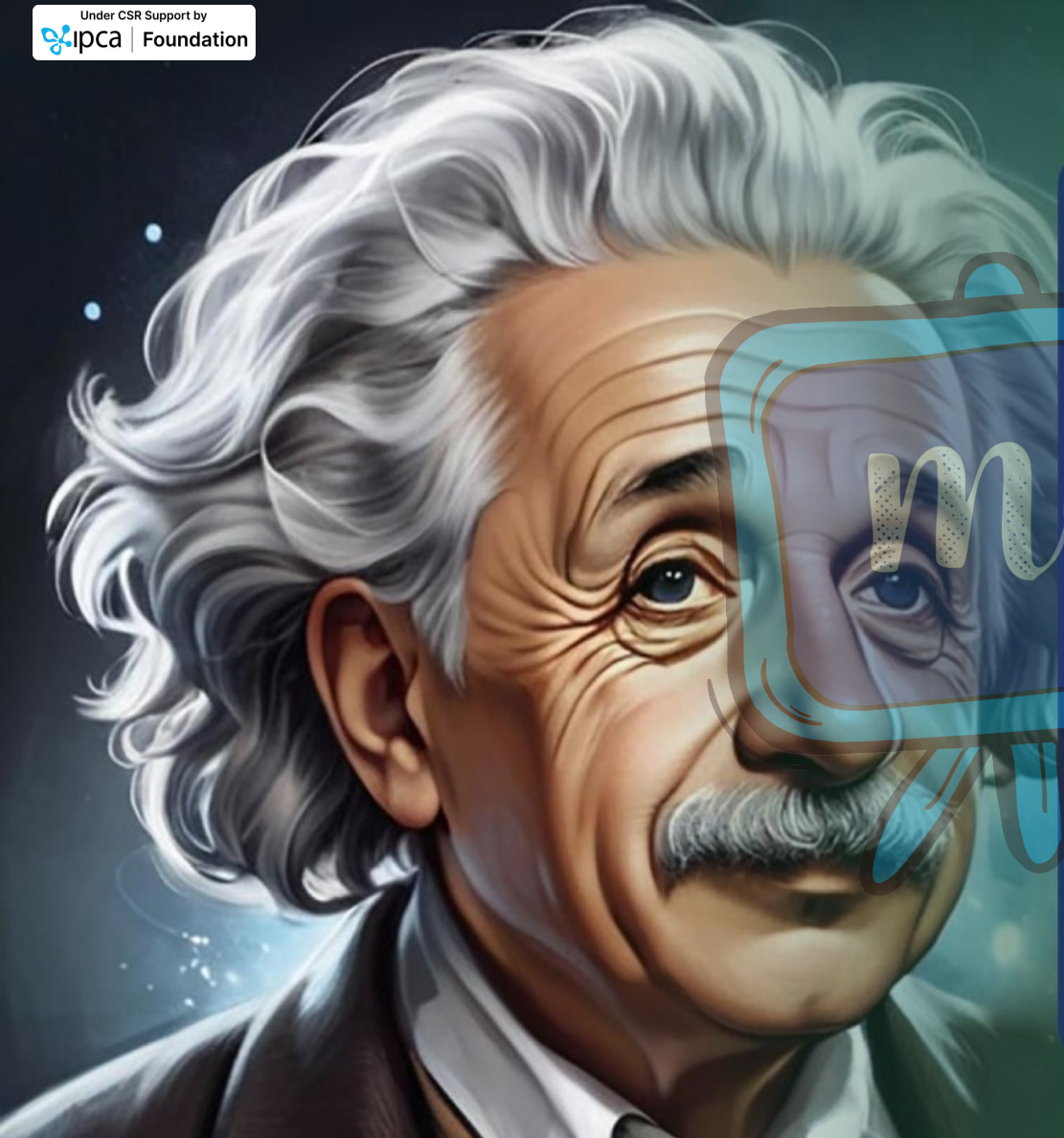
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CLASS – 9

ENGLISH

Beehive

CH-4 : A Truly Beautiful Mind

Part – 3

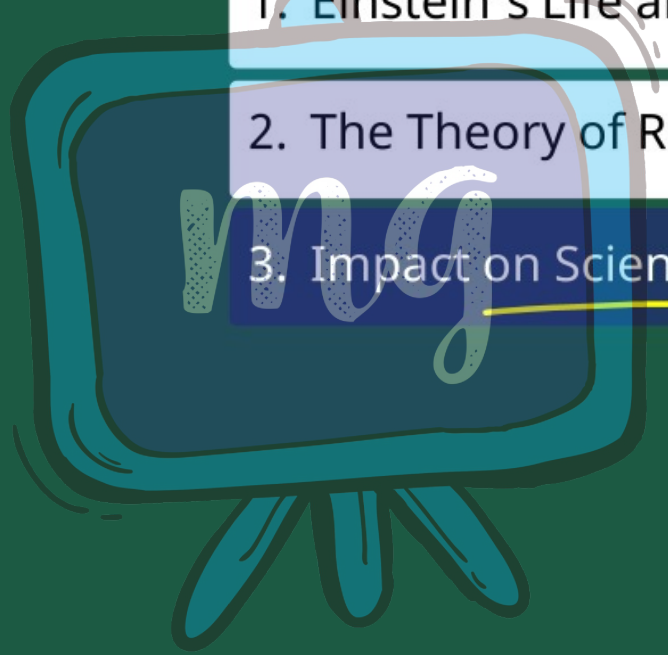
Impact on Science and Society

ARPITA SHARMA

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OVERVIEW

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1. Einstein's Life and Education
2. The Theory of Relativity
3. Impact on Science and Society

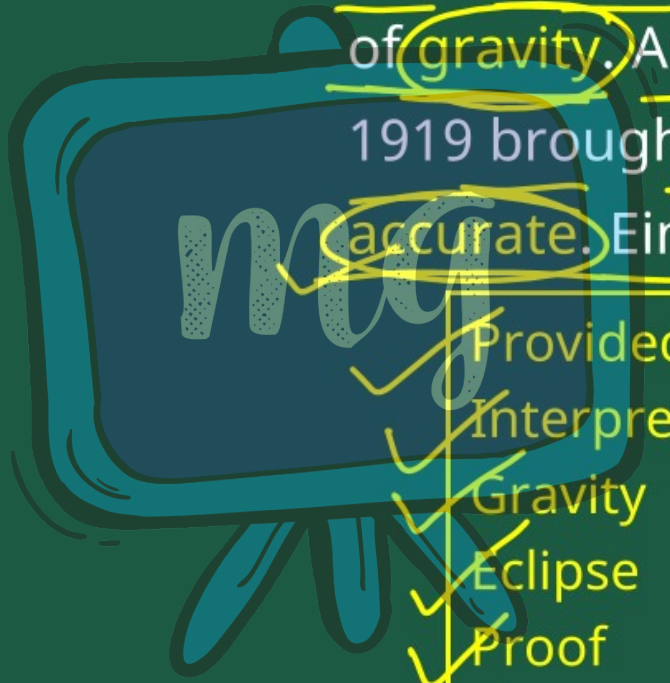
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12. Einstein's new personal chapter coincided with his rise to world fame. In 1915, he had published his General Theory of Relativity,

Personal	:	व्यक्तिगत
Coincided	:	एक ही समय में होना
Rise	:	वृद्धि
Fame	:	प्रसिद्धि
Published	:	प्रकाशित

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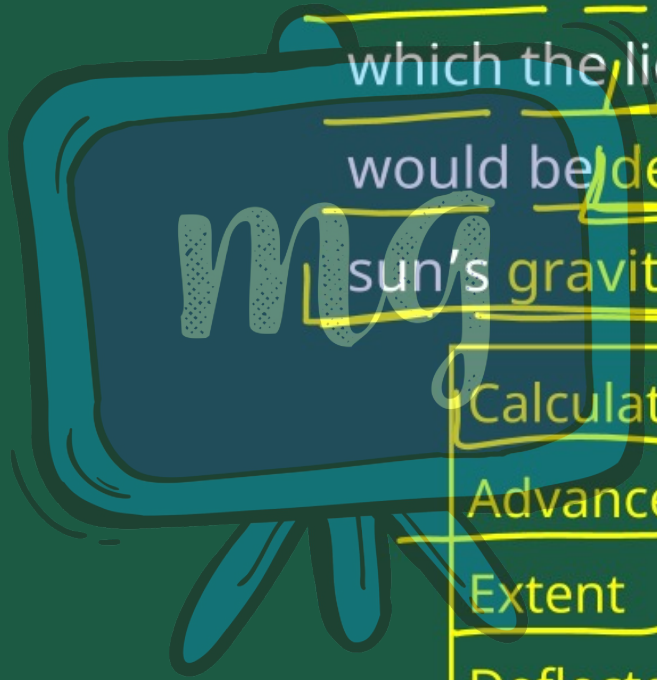
which provided a new interpretation of gravity. An eclipse of the sun in 1919 brought proof that it was accurate. Einstein had correctly



Provided	:	प्रदान की
Interpretation	:	व्याख्या
Gravity	:	गुरुत्वाकर्षण
Eclipse	:	ग्रहण
Proof	:	सबूत
Accurate	:	सही
Correctly	:	ठीक प्रकार से

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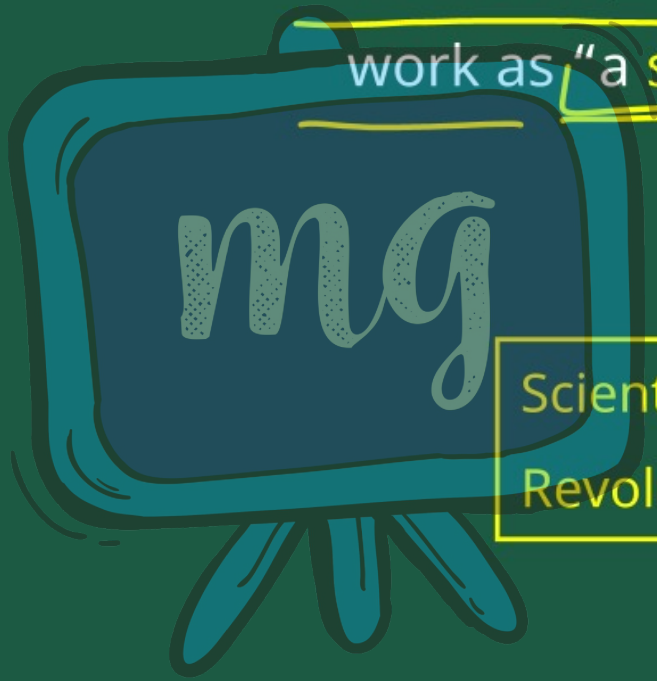
calculated in advance the extent to which the light from fixed stars would be deflected through the sun's gravitational field.



Calculated	:	गणना
Advance	:	पहले से
Extent	:	सीमा
Deflected	:	विचलित होना
Gravitational	:	गुरुत्वाकर्षण

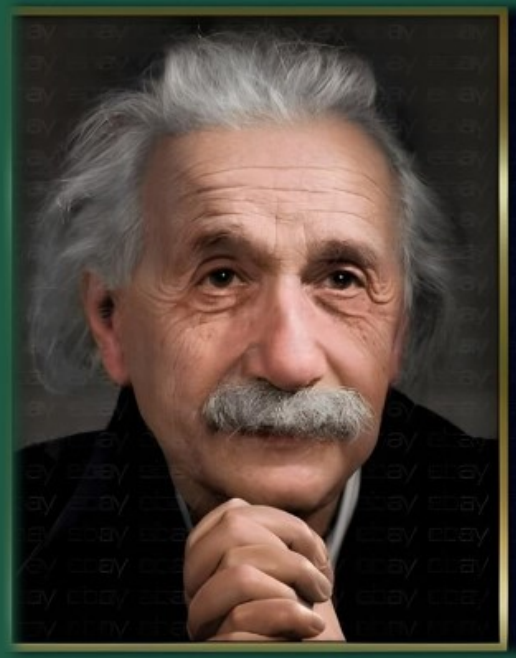
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The newspapers proclaimed his work as "a scientific revolution."



Scientific	:	वैज्ञानिक
Revolution	:	क्रांति

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13. Einstein received the Nobel Prize for Physics in 1921. He was showered with honours and invitations from all over the world, and lauded by the press.

Showered	:	बरसना
Honours	:	सम्मान
Invitations	:	आमंत्रण
Lauded	:	सम्मान/प्रशंसा

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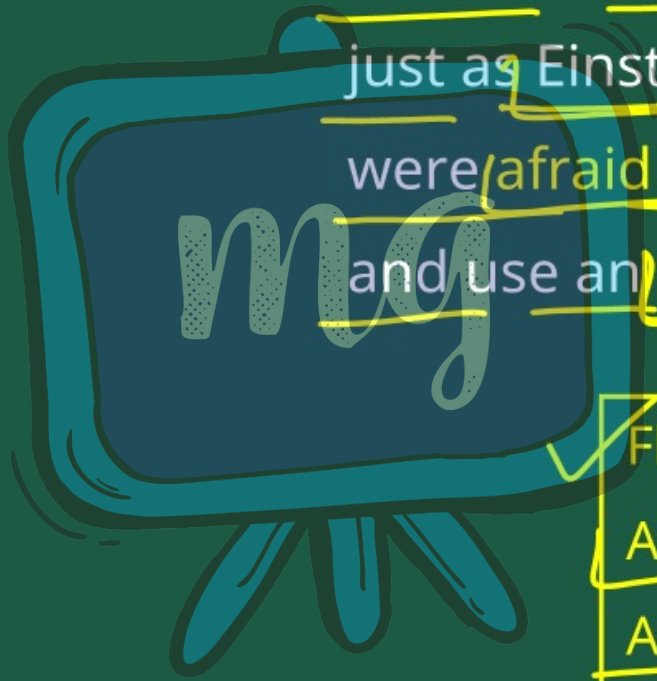
14. When the Nazis came to power in Germany in 1933, Einstein emigrated to the United States. Five years later, the discovery of nuclear fission in Berlin had American physicists in an uproar.

Emigrated	:	स्वदेश त्यागना
Discovery	:	खोज
Nuclear	:	नाभिकीय
Fission	:	विखंडन
Physicists	:	भौतिकशास्त्री
In an uproar	:	कोलाहल

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Many of them had fled from Fascism, just as Einstein had, and now they were afraid the Nazis could build and use an atomic bomb.

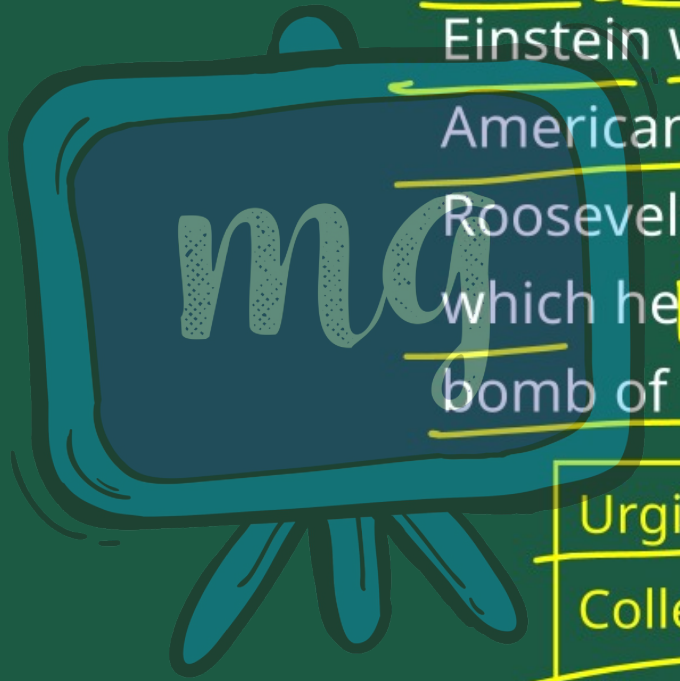


Fled	:	भाग गए
Afraid	:	भयभीत
Atomic	:	परमाणु

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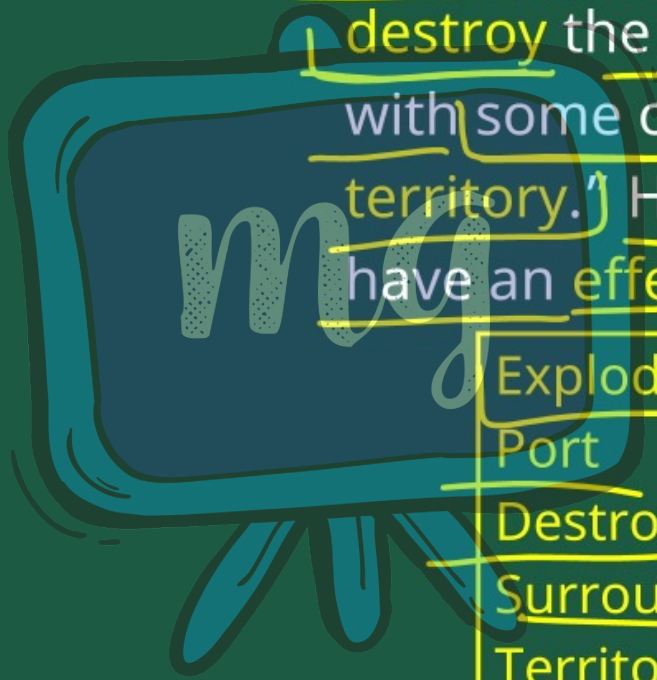
15. At the urging of a colleague, Einstein wrote a letter to the American President, Franklin D. Roosevelt, on 2 August 1939, in which he warned; "A single bomb of this type . . .



Urging	:	आग्रह
Colleague	:	सहकर्मी
Warned	:	आगाह

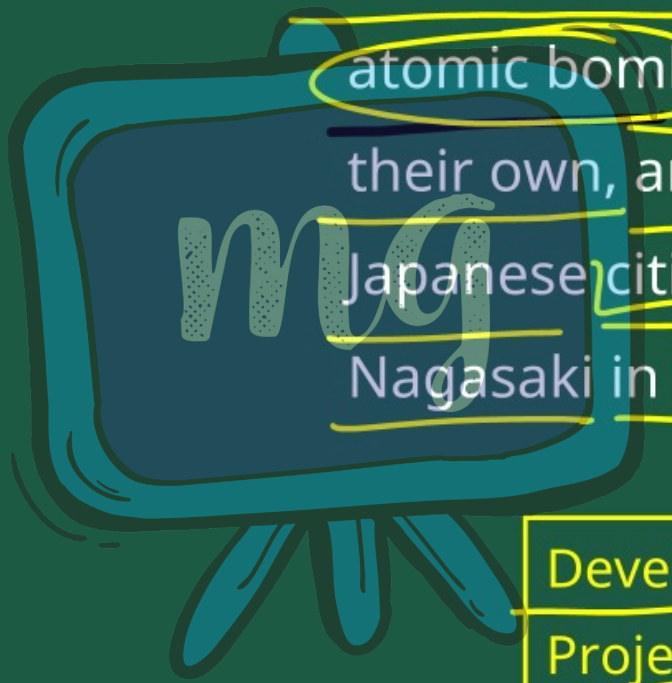
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exploded in a port, might very well destroy the whole port together with some of the surrounding territory.' His words did not fail to have an effect.



Exploded	:	विस्फोट
Port	:	बंदरगाह
Destroy	:	नष्ट
Surrounding	:	आस-पास के
Territory	:	क्षेत्र/इलाका
Fail	:	विफल
Effect	:	प्रभाव

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The Americans developed the atomic bomb in a secret project of their own, and dropped it on the Japanese cities of Hiroshima and Nagasaki in August 1945.

Developed	:	विकसित
Project	:	परियोजना

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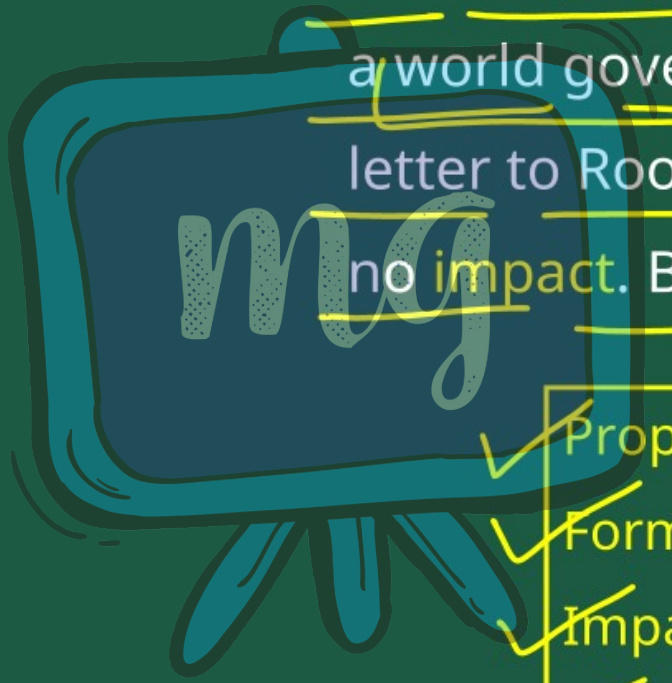
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16. Einstein was deeply shaken by the extent of the destruction. This time he wrote a public missive to the United Nations.

Deeply	:	गहरा
Shaken	:	हिलना
Extent	:	सीमा
Destruction	:	विनाश
Public	:	सार्वजनिक
Missive	:	औपचारिक पत्र/राजनीतिक सन्देश

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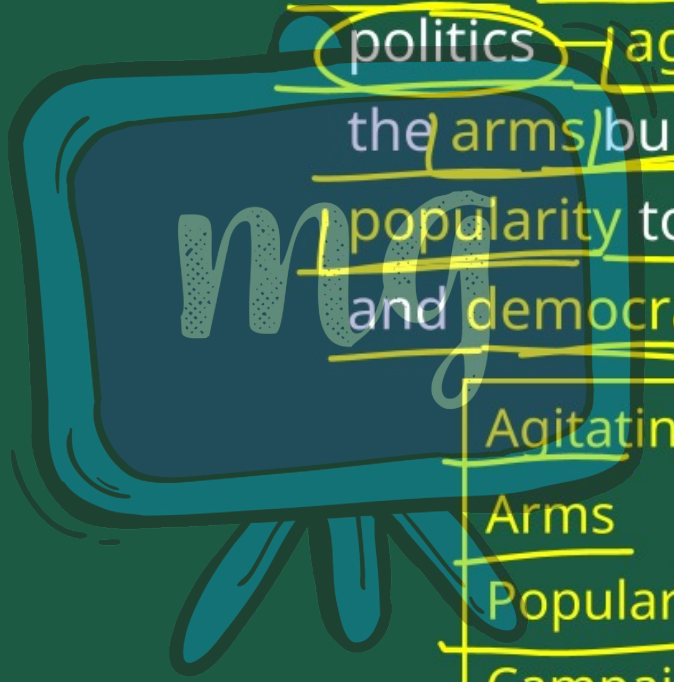
In it he proposed the formation of a world government. Unlike the letter to Roosevelt, this one made no impact. But over the next decade, (10 years)



Proposed	:	प्रस्तावित
Formation	:	गठन
Impact	:	प्रभाव
Decade	:	दशक

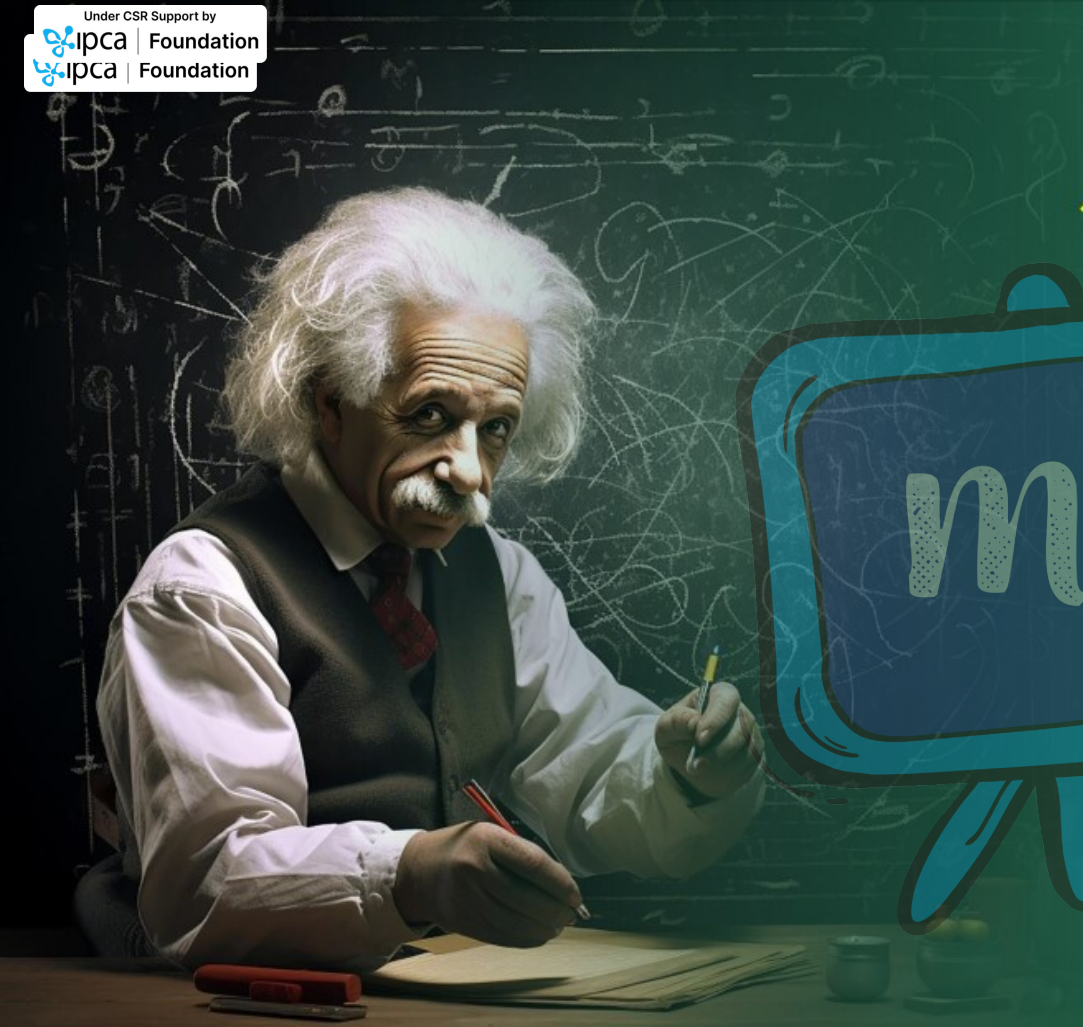
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Einstein got ever more involved in politics — agitating for an end to the arms buildup and using his popularity to campaign for peace and democracy.



Agitating	:	आन्दोलन करना
Arms	:	हथियार
Popularity	:	प्रसिद्धि
Campaign	:	अभियान
Democracy	:	लोकतंत्र

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17. When Einstein died in 1955 at the age of 76, he was celebrated as a visionary and world citizen as much as a scientific genius.

Celebrated	:	जाना जाता हैं या मनाना
Visionary	:	दूरदर्शी
Citizen	:	नागरिक
Scientific genius	:	भौतिक प्रतिभा

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LEARNING OUTCOMES



1. Advocacy for Peace
2. International Recognition
3. Political Activism

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ASSESSMENT



1 What does this lesson "A Truly Beautiful Mind" speak about?

A Beauty of the mind.

B Beauty of the world.

C The life of Einstein.

D None

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ASSESSMENT



2 Which destruction shook Einstein?

A Destruction of inventions.

B Destruction by authoritarians.

C Destruction caused by the atom bombs at Hiroshima and Nagasaki.

D None

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ASSESSMENT



3 In which subject did Einstein receive the Nobel Prize?

A Physics.

B Mathematics.

C Chemistry.

D Biology.