



KAMARAJ IAS ACADEMY
Only IAS Academy by Grandson of "Perunthalaivar Kamarajar"

Artemis II lifts off: Four astronauts begin a journey marking a new era in space travel

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Key Points:

Mission: Artemis II

Agency: NASA

Crew: 4 astronauts (including one from Canada)

Duration: ~10 days

Type: Crewed Moon flyby (no landing)

Rocket: Space Launch System (SLS)

Spacecraft: Orion

What is happening?

Four astronauts have begun a historic journey to travel around the Moon and return safely to Earth.

This is the first human mission beyond low Earth orbit in over 50 years since the Apollo missions.

Mission profile

Launch from Earth using SLS rocket

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Orbit Earth and test onboard systems

Travel towards the Moon (Trans-Lunar Injection)

Fly around the Moon (no landing)

Return to Earth using a free-return trajectory

Splashdown in the Pacific Ocean

Why is it important?

Marks the revival of human deep-space exploration

Tests:

Life-support systems

Navigation and communication

Builds foundation for:

Artemis III (Moon landing)

Future human missions to Mars

How is it different from Apollo?

Apollo missions focused on short-term visits

Artemis aims for:

Long-term human presence on the Moon

More advanced and sustainable exploration

Final Takeaway

Artemis II is a crucial test mission that restarts human journeys to deep space and prepares for future Moon landings and long-term space exploration.