

# ARTEMIS II

## First Crewed Test Flight to the Moon Since Apollo

**1 LAUNCH (11/16/22)**  
Astronauts lift off from pad 39B at Kennedy Space Center.

**2 JETTISON SOLID ROCKET BOOSTERS, FAIRINGS, AND LAUNCH ABORT SYSTEM**

**3 CORE STAGE MAIN ENGINE CUT OFF**  
With separation.

**4 PERIGEE RAISE MANEUVER**  
**5 APOGEE RAISE BURN TO HIGH EARTH ORBIT**  
Begin 23.5-hour checkout of spacecraft.

**6 ORION SEPERATION FROM INTERIM CRYOGENIC PROPULSION STAGE (ICPS) FOLLOWED BY PROX OPS DEMO**  
Plus manual handling qualities assessment for up to 2 hours.

**7 ORION UPPER STAGE SEPERATION (USS) BURN**  
Begins high Earth orbit checkout. Life support, exercise, and habitation equipment evaluations.

**8 PERIGEE RAISE BURN**

**9 TRANS-LUNAR INJECTION (TLI) BY PRION'S MAIN ENGINE**  
Lunar free return trajectory initiated with European service module.

**10 OUTBOUND TRANSIT TO MOON**  
Outbound trajectory correction (OTC) burns as necessary for lunar free return trajectory; travel time approximately 4 days.

**11 LUNAR FLYBY**  
4,047 miles/6,513 km (mean) lunar far side flyby altitude.

**12 TRANS-EARTH RETURN**  
Return trajectory correction (RTC) burns as necessary to aim for Earth's atmosphere; travel time approximately 4 days.

**13 CREW MODULE SEPARATION FROM SERVICE MODULE**

**14 ENTRY INTERFACE**  
Enter Earth's atmosphere.

**15 SPLASHDOWN**  
Ship recovers astronauts and capsule.

### ORION

NASA's Orion spacecraft is carrying humanity to the Moon. Orion will carry the crew to lunar orbit and safely return them to Earth on Artemis missions

<https://www.nasa.gov/humans-in-space/orion-spacecraft/orion-overview/>



### CREW

Learn more about the astronauts who will venture around the Moon on Artemis II, the first crewed flight aboard NASA's human deep space capabilities, paving the way for future lunar surface missions.

[www.nasa.gov/feature/our-artemis-crew/](https://www.nasa.gov/feature/our-artemis-crew/)

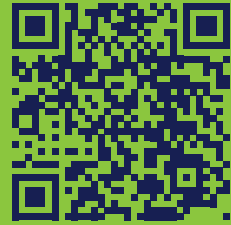
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[www.nasa.gov/learning-resources/join-artemis/](http://www.nasa.gov/learning-resources/join-artemis/)



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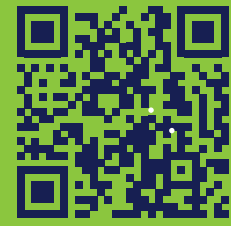


[www.nasa.gov/learning-resources/internship-programs/](http://www.nasa.gov/learning-resources/internship-programs/)



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[www.nasa.gov/careers/](http://www.nasa.gov/careers/)



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[www.nasa.gov/humans-in-space/astronauts/become-an-astronaut/](http://www.nasa.gov/humans-in-space/astronauts/become-an-astronaut/)