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10 Weekender

Korea's winner at Big Four beauty pageant talks about true beauty



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## Korea's lunar orbiter begins moon flyby on Dec. 17

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developed lunar orbiter, will slow down its speed on Saturday to be captured by lunar gravity as part of its plan to enter the moon's orbit. according to the science ministry Institute (KARI), Thursday,

Carried by SpaceX's Falcon 9 rocket, the Danuri was launched from Cape Canaveral Space Force Station in Florida, the United States on Aug. 5, and is scheduled to enter the moon's orbit at the end of December.

To enter the orbit of the moon, the

the Danuri will try to slow down cess could be tricky and the most carry out include finding a spaceits speed five times from Dec. 17 to Dec. 28, adding that it will be con-The Danuri, Korea's domestically firmed on Dec. 29 whether it has ty while not flying past the moon, and testing space-based internet entered the lunar orbit

million kilometers on a preprogrammed ballistic lunar transfer trajectory toward the moon after its and the Korea Aerospace Research launch on Aug. 5. It will approach a distance of about 108 kilometers from the moon on Dec. 17. After going through five lunar orbit entry maneuvers from Dec. 17 to Dec. explained. 28, it is scheduled to settle into the moon's orbit, which is 100 kilometers above the moon," the ministry

The science ministry added that Ministry of Science and ICT said the first lunar orbit entry pro-

The time at which the Danuri will on Dec. 17.

will operate a thruster for around 13 minutes to decelerate its speed from about 8,000 kilometers per hour to 7,500 kilometers per hour to reach at its target position," the ministry est parts of the moon's surface.

After it is confirmed to have successfully entered lunar orbit, the Danuri will conduct scientific missions for a year from January to December of 2023.

important one to ensure that Danuri craft moon landing site, measuring is stably captured by lunar gravi- the magnetic field and gamma rays communication. The Danuri weighs "The Danuri flew a total of 5.96 attempt the moon flyby is 2:45 a.m. 678 kilograms and is equipped with five pieces of observation equip-"During this process, the Danuri ment developed using Korean technology, as well as a ShadowCam device from the U.S. National Aeronautics and Space Administration (NASA) that can observe the dark-

> The science ministry also unveiled a photo of the earth and the moon. taken by the Danuri on Nov. 28. The ministry added that the photo was taken at a time when the earth and the moon looked similar in size The missions the lunar orbiter will when viewed from the Danuri.