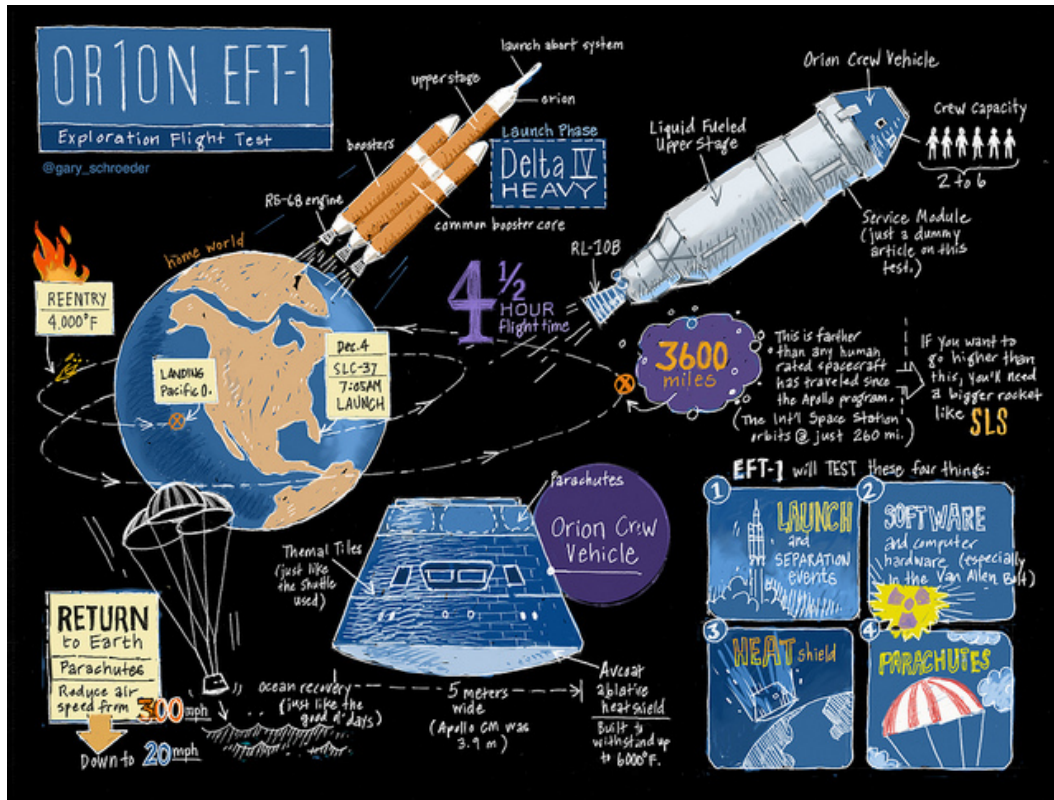
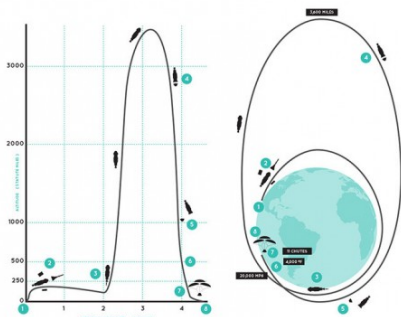


Educational infographic - Orion EFT-1 mission



ORION FLIGHT TEST



THE FLIGHT Orion's first flight test in December is a critical and significant step toward sending humans farther into space than ever before. This test will evaluate launch and high speed re-entry systems such as avionics, attitude control, parachutes and the heat shield.

1

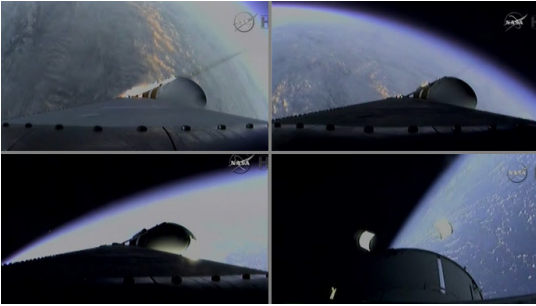
0:00:00

Orion Launches on the ULA Delta IV Heavy rocket from Florida

2

0:06:15

Service Module fairings and the Launch Abort System Separate



3
1:57:11
 Upper Stage reignites after completing one orbit

A diagram of the Orion spacecraft in orbit. The spacecraft is shown from a side-on perspective, with a circular arrow around it indicating one orbit. The text "1 Orbit" is written inside the circle.

4
3:23:41
 Crew Module separates from Service Module and Upper Stage

CAPSULE SEPARATION

 A diagram showing the Orion spacecraft in the process of separating. The crew module is shown detaching from the service module and upper stage.

5
3:57:00
 Crew Module performs the raise burn to orient correctly for reentry

CAPSULE ORIENTATION CONTROL JETS FIRE

 Two diagrams. The left diagram shows the Orion spacecraft from a top-down perspective, with control jets firing to orient the capsule. The right diagram shows the Orion spacecraft from a side-on perspective, with control jets firing.

6
4:13:41
 Crew Module makes contact with the atmosphere

A diagram showing the Orion spacecraft in reentry. The spacecraft is shown from a side-on perspective, with the Earth's atmosphere visible below. The nose of the spacecraft is pointed towards the viewer, and the heat shield is clearly visible.

7
4:20:22
 Forward Bay Cover separates starting the parachute deployment sequence

A diagram showing the Orion spacecraft in the process of deploying its parachutes. The diagram is divided into several numbered steps: 1. Forward Bay Cover separates. 2. Parachutes begin to deploy. 3. Parachutes fully deployed. 4. Parachutes fully deployed. 5. Parachutes fully deployed. 6. Parachutes fully deployed. 7. Parachutes fully deployed. 8. Parachutes fully deployed.

8
4:24:46
 Orion lands safely in the Pacific Ocean and is recovered by NASA and the US Navy

A diagram showing the Orion spacecraft floating in the ocean. The spacecraft is shown from a side-on perspective, with its nose pointing upwards. Two large red life rafts are attached to the top of the spacecraft. A recovery ship is visible in the background.



Credits: NASA

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