

WEBCAST

<u>The webcast</u> for the Crew-4 mission will go live about 4 hours before liftoff.

PHOTOS

High-resolution photos will be posted at <u>flickr.com/spacex</u>.

THE ASTRONAUTS

CREW-5 MISSION

MISSION OVERVIEW

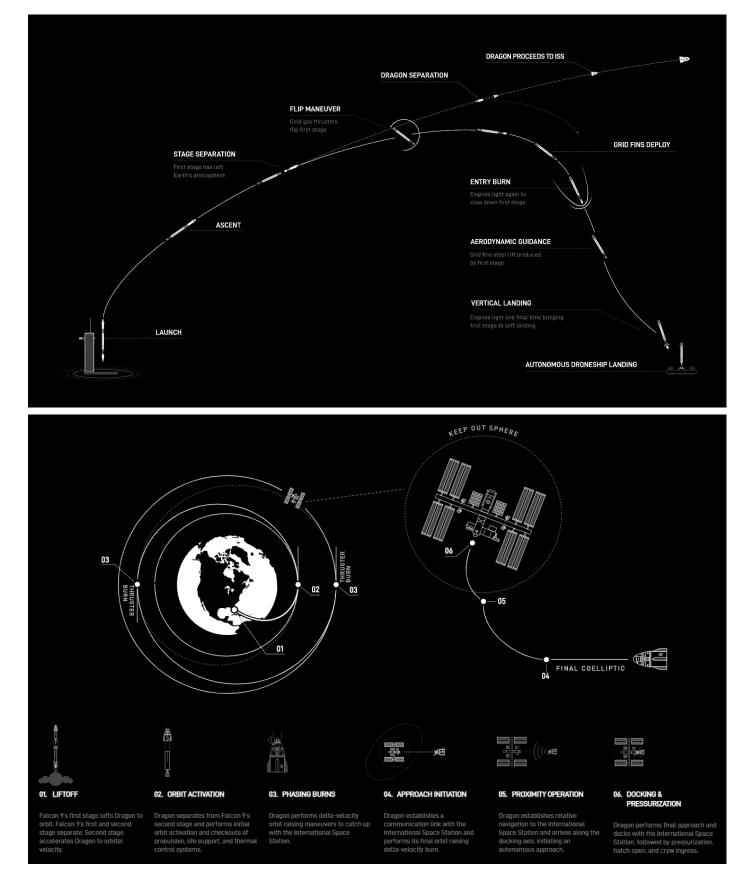
SpaceX and NASA are targeting no earlier than Wednesday, October 5 for Falcon 9's launch of Dragon's fifth operational human spaceflight mission (**Crew-5**) to the International Space Station from Launch Complex 39A (LC-39A) at NASA's Kennedy Space Center in Florida. The instantaneous launch window opens at 12:00 p.m. ET, 16:00 UTC, with a backup opportunity available on Thursday, October 6 at 11:38 a.m. ET, 15:38 UTC.

The Dragon spacecraft supporting this mission previously flew Crew-3 to and from the space station. Following stage separation, Falcon 9's first stage will land on the Just Read the Instructions droneship stationed in the Atlantic Ocean.

During their time on the orbiting laboratory, the crew will conduct over 200 science experiments and technology demonstrations in areas such as human health and lunar fuel systems.



MISSION PROFILE



MISSION TIMELINE (ALL TIMES APPROXIMATE)

COUNTDOWN

Hr/Min/Sec Event

- 00:45:00 SpaceX Launch Director verifies go for propellant load
- 00:42:00 Crew access arm retracts
- 00:37:00 Dragon's launch escape system is armed
- 00:35:00 RP-1 (rocket grade kerosene) loading begins
- 00:35:00 1st stage LOX (liquid oxygen) loading begins
- 00:16:00 2nd stage LOX loading begins
- 00:07:00 Falcon 9 begins engine chill prior to launch
- 00:05:00 Dragon transitions to internal power
- 00:01:00 Command flight computer to begin final prelaunch checks
- 00:01:00 Propellant tank pressurization to flight pressure begins
- 00:00:45 SpaceX Launch Director verifies go for launch
- 00:00:03 Engine controller commands engine ignition sequence to start
- 00:00:00 Falcon 9 liftoff

LAUNCH, LANDING AND DEPLOYMENT

Hr/Min/Sec	Event
00:01:02	Max Q (moment of peak mechanical stress on the rocket)
00:02:36	1st stage main engine cutoff (MECO)
00:02:40	1st and 2nd stages separate
00:02:48	2nd stage engine starts
00:07:25	1st stage entry burn
00:08:49	2nd stage engine cutoff (SECO-1)
00:09:03	1st stage landing burn
00:09:30	1st stage landing
00:12:05	Dragon separates from 2nd stage
00:12:48	Dragon nosecone open sequence begins

This document was created based on the information posted publicly by SpaceX on the official website.