UPCOMING LAUNCH

CRS-29 MISSION

WATCH

SpaceX is targeting Thursday, November 9 for Falcon 9's launch of Dragon's 29th Commercial Resupply Services **(CRS-29)** mission to the International Space Station from Launch Complex 39A (LC-39A) at NASA's Kennedy Space Center in Florida. The instantaneous launch window is at 8:28 p.m. ET with a backup launch opportunity available on Friday, November 10 at 8:05 p.m. ET.

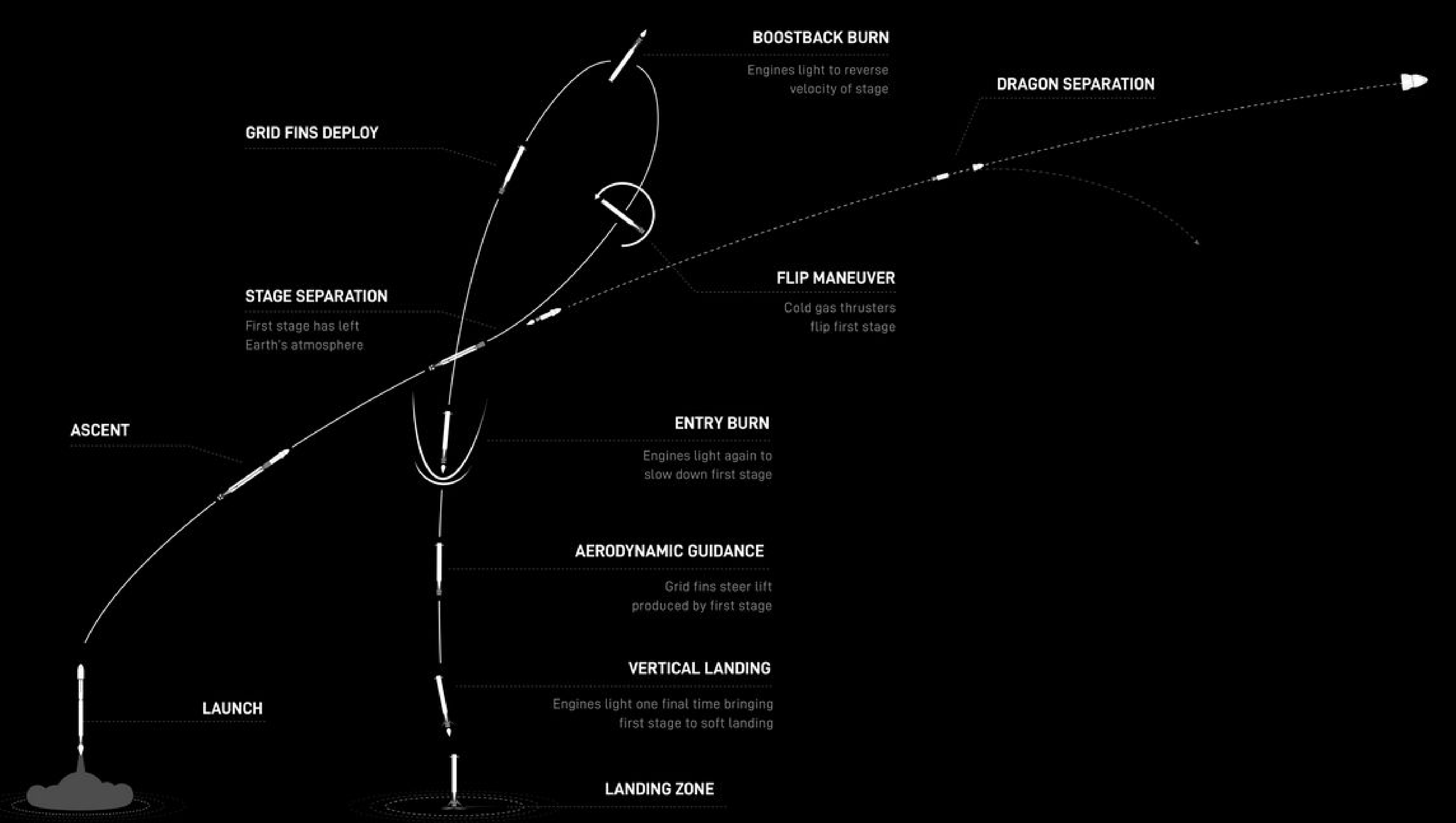
A live webcast of this mission will begin on **X @SpaceX** about 30 minutes prior to liftoff. **Watch live**.

This is the second flight of the first stage booster supporting this mission, which previously launched Crew-7. Following stage separation, Falcon 9 will land at the Cape Canaveral Space Force Station Landing Zone 1 (LZ-1).

CRS-29 is the second flight for this Dragon spacecraft, which previously flew CRS-26 to the space station. After an approximate 32-hour flight, Dragon will autonomously dock with space station Saturday, November 11 at approximately 5:20 a.m. ET.

COUNTDOWN

HR/MIN/SEC	EVENT
00:38:00	SpaceX Launch Director verifies go for propellant load
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 pre-launch engine chill
00:05:00	Dragon transitions to internal power
00:01:00	Command flight computer to begin final prelaunch checks
00:01:00	Propellant tanks pressurize for flight
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

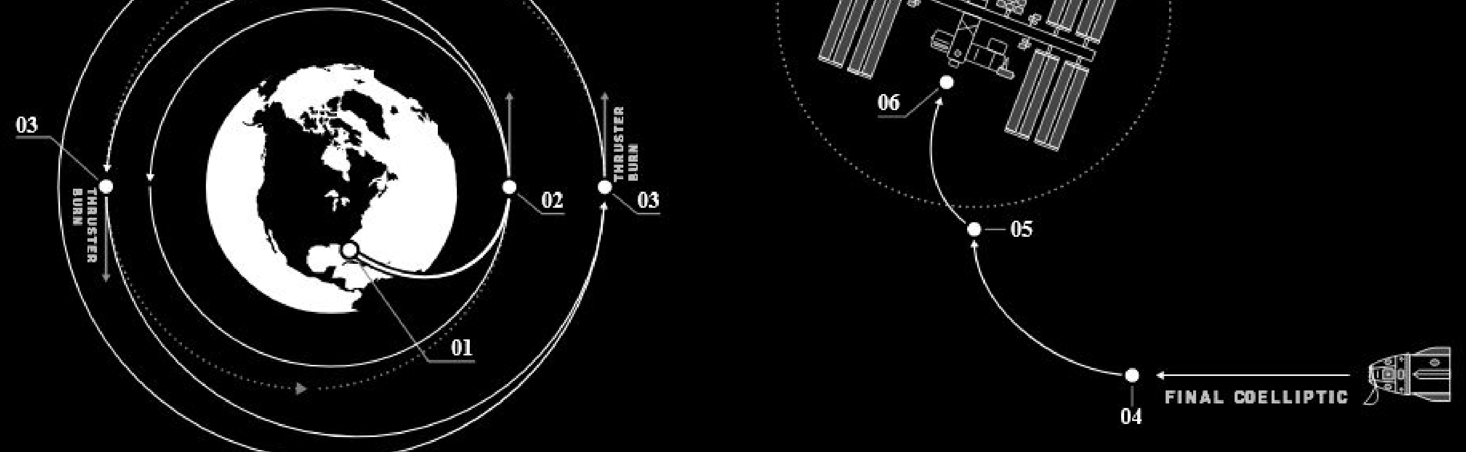
All Times are Approximate

HR/MIN/SEC	EVENT
00:01:12	Max Q (moment of peak mechanical stress on the rocket)
00:02:17	1st stage main engine cutoff (MECO)
00:02:21	1st and 2nd stages separate
00:02:28	2nd stage engine starts
00:02:34	Boostback Burn Starts
00:03:28	Boostback Burn Ends
00:06:10	1st stage entry burn starts
00:06:22	1st stage entry burn ends
00:07:19	1st stage landing burn starts
00:07:36	1st stage landing
00:08:33	2nd stage engine cutoff (SECO-1)
00:11:46	Dragon separates from 2nd stage
00:12:34	Dragon nosecone open sequence begins

MISSION

TO THE SPACE STATION

On its flight to the International Space Station, Dragon executes a series of burns that position the vehicle progressively closer to the station before it performs final docking maneuvers, followed by pressurization of the vestibule, hatch opening, and crew ingress.



01. LIFTOFF
02. ORBIT ACTIVATION
03. PHASING BURNS
04. APPROACH INITIATION
05. PROXIMITY OPERATION
06. DOCKING & PRESSURIZATION