

## Mission Timeline for Launch Thursday, April 22 at 6:11:35 a.m. EDT

MET	Time	Event
-08:11:00	10:00:00 PM	Crew Wake
-05:30:00	12:41:35 AM	CE Launch Readiness Briefing
-05:00:00	1:11:35 AM	Launch Shift On Console
-04:59:59	1:11:36 AM	Dragon IMU align and Configure for launch
-04:30:00	1:41:35 AM	Dragon prop pressurization
-04:20:00	1:51:35 AM	Crew weather brief
-04:05:00	2:06:35 AM	Crew handoff
-04:00:00	2:11:35 AM	Suit donning and checkouts
-03:20:00	2:51:35 AM	Crew walk out from Neil Armstrong Operations & Checkout Building
-03:15:00	2:56:35 AM	Crew Transportation to Launch Complex 39A
-02:55:00	3:16:35 AM	Crew arrives at pad
-02:35:00	3:36:35 AM	Crew ingress
-02:20:00	3:51:35 AM	Communication check
-02:15:00	3:56:35 AM	Verify ready for seat rotation
-02:14:00	3:57:35 AM	Suit leak checks
-01:55:00	4:16:35 AM	Hatch close
-01:10:00	5:01:35 AM	ISS state upload to Dragon
-00:45:00	5:26:35 AM	SpaceX Launch Director verifies go for propellant load
-00:42:00	5:29:35 AM	Crew access arm retracts
-00:37:00	5:33:35 AM	Dragon launch escape system is armed
-00:35:00	5:36:35 AM	RP-1 (rocket grade kerosene) loading begins 1st stage LOX (liquid oxygen) loading begins
-00:16:00	5:55:35 AM	2nd stage LOX loading begins
-00:07:00	6:04:35 AM	Falcon 9 begins engine chill prior to launch
-00:05:00	6:06:35 AM	Dragon transitions to internal power
-00:01:00	6:10:35 AM	Command flight computer to begin final prelaunch checks Propellant tank pressurization to flight pressure begins
-00:00:45	6:10:50 AM	SpaceX Launch Director verifies go for launch
-00:00:03	6:11:32 AM	Engine controller commands engine ignition sequence to start
<b>+0/00:00:00</b>	<b>6:11:35 AM</b>	<b>Liftoff</b>
+00:01:02	6:12:37 AM	Max Q (moment of peak mechanical stress on the rocket)
+00:02:36	6:14:11 AM	1st stage main engine cutoff (MECO)
+00:02:39	6:14:14 AM	1st and 2nd stages separate
+00:02:47	6:14:22 AM	2nd stage engine starts
+00:07:27	6:19:02 AM	1st stage entry burn
+00:08:47	6:20:22 AM	2nd stage engine cutoff (SECO-1)
+00:09:03	6:20:38 AM	1st stage entry burn
+00:09:30	6:21:05 AM	1st stage landing
+00:11:58	6:23:33 AM	Crew Dragon separates from 2nd stage
+00:13:02	6:24:37 AM	Dragon nosecone open sequence begins