SpacetoGround

1
00:00:06,550 --> 00:00:04,950
houston station on space to ground

2
00:00:08,710 --> 00:00:06,560
welcome to space to ground i'm leah

3
00:00:10,709 --> 00:00:08,720
cheshire northrup grumman's cygnus

4
00:00:12,549 --> 00:00:10,719
resupply spacecraft is coming up on the

5
00:00:13,990 --> 00:00:12,559
launch pad with a destination of the

6
00:00:15,350 --> 00:00:14,000
space station

7
00:00:17,189 --> 00:00:15,360
cygnus is ready to launch on the

8
00:00:19,109 --> 00:00:17,199
company's 16th commercial resupply

9
00:00:21,269 --> 00:00:19,119
mission to the space station on tuesday

10
00:00:24,150 --> 00:00:21,279
august 10th the spacecraft is packed

11
00:00:26,150 --> 00:00:24,160
with more than 8 200 pounds of supplies

12
00:00:27,830 --> 00:00:26,160
hardware experiments and more for the

13
00:00:29,990 --> 00:00:27,840

seven crew members living and working

14
00:00:32,069 --> 00:00:30,000
aboard the orbiting laboratory upon

15
00:00:33,990 --> 00:00:32,079
arrival nasa's megan macarthur will use

16
00:00:36,150 --> 00:00:34,000
the canada arm 2 to reach out and

17
00:00:37,750 --> 00:00:36,160
capture the spacecraft prior to ground

18
00:00:39,590 --> 00:00:37,760
teams installing it to the station's

19
00:00:41,430 --> 00:00:39,600
unity module where it will remain for

20
00:00:44,150 --> 00:00:41,440
about 3 months

21
00:00:45,910 --> 00:00:44,160
more than 2 300 pounds of the cargo

22
00:00:48,310 --> 00:00:45,920
launching on cygnus is dedicated to

23
00:00:50,150 --> 00:00:48,320
science and research at any time there

24
00:00:53,110 --> 00:00:50,160
are hundreds of experiments happening on

25
00:00:55,110 --> 00:00:53,120
the station here's what's coming up next

26
00:00:56,950 --> 00:00:55,120
the cardinal muscle investigation tests

27
00:00:58,709 --> 00:00:56,960
whether microgravity can be used as a

28
00:01:00,950 --> 00:00:58,719
research tool for understanding and

29
00:01:02,709 --> 00:01:00,960
treating muscle loss on earth looking

30
00:01:04,869 --> 00:01:02,719
forward we have our site set on the moon

31
00:01:07,109 --> 00:01:04,879
and mars and the redwire regolith print

32
00:01:09,429 --> 00:01:07,119
study demonstrates how we might 3d print

33
00:01:11,270 --> 00:01:09,439
future tools using resources like loose

34
00:01:13,990 --> 00:01:11,280
rock and soil found on our planetary

35
00:01:16,550 --> 00:01:14,000
neighbors and on every trip safety is

36
00:01:18,710 --> 00:01:16,560
critical the four bed co2 scrubber

37
00:01:21,190 --> 00:01:18,720
demonstrates technology to remove excess

38
00:01:22,870 --> 00:01:21,200

carbon dioxide from a spacecraft on

39
00:01:24,630 --> 00:01:22,880
earth this could benefit workers and

40
00:01:26,390 --> 00:01:24,640
equipment that require carbon dioxide

41
00:01:27,590 --> 00:01:26,400
removal in closed environments for their

42
00:01:29,109 --> 00:01:27,600
protection

43
00:01:31,030 --> 00:01:29,119
to learn more about the science and

44
00:01:33,190 --> 00:01:31,040
research happening on the space station

45
00:01:34,469 --> 00:01:33,200
follow iss underscore research on

46
00:01:36,469 --> 00:01:34,479
twitter

47
00:01:38,230 --> 00:01:36,479
that's all for today on space to ground

48
00:01:40,310 --> 00:01:38,240
for all the latest updates head over to

49
00:01:44,060 --> 00:01:40,320
nasa.gov thanks for watching and we'll