



Space to Ground

1
00:00:02,706 --> 00:00:04,656
"HOUSTON, STATION
ON SPACE TO GROUND."

2
00:00:05,216 --> 00:00:07,486
WELCOME TO SPACE TO
GROUND, I AM KAYLA LAFRANCE.

3
00:00:07,666 --> 00:00:10,576
THIS WEEK ASTRONAUTS ONBOARD
THE STATION HAVE BEEN PREPARING

4
00:00:10,686 --> 00:00:11,676
FOR A SPECIAL VISITOR.

5
00:00:12,896 --> 00:00:15,846
NASA AND COMMERCIAL CREW
PROVIDER SPACEX ARE GETTING

6
00:00:15,846 --> 00:00:19,896
READY FOR THE MARCH 2 LAUNCH OF
THE DEMO-1 UNCREWED TEST FLIGHT

7
00:00:19,896 --> 00:00:21,546
TO THE INTERNATIONAL
SPACE STATION.

8
00:00:21,846 --> 00:00:24,626
THE SPACEX CREW DRAGON
SPACECRAFT WILL LAUNCH

9
00:00:24,626 --> 00:00:28,896
ON A FALCON 9 ROCKET FROM THE
HISTORIC LAUNCH COMPLEX 39A

10
00:00:29,166 --> 00:00:31,056
AT NASA'S KENNEDY SPACE
CENTER IN FLORIDA.

11

00:00:31,846 --> 00:00:34,566
THIS UNCREWED TEST FLIGHT
WILL BE THE FIRST TIME A

12
00:00:34,566 --> 00:00:37,626
COMMERCIALY-BUILT AND
OPERATED AMERICAN ROCKET

13
00:00:37,626 --> 00:00:39,006
AND SPACECRAFT DESIGNED

14
00:00:39,006 --> 00:00:41,886
FOR HUMANS WILL LAUNCH
TO THE SPACE STATION.

15
00:00:41,926 --> 00:00:44,796
DRAGON WILL SPEND ABOUT
FIVE DAYS ATTACHED

16
00:00:44,796 --> 00:00:46,556
TO THE SPACE STATION
UNTIL MARCH 8

17
00:00:46,946 --> 00:00:48,506
WHEN THE SPACECRAFT
WILL RETURN TO EARTH.

18
00:00:49,136 --> 00:00:53,016
BE SURE TO TUNE INTO NASA TV ON
MARCH 2ND TO WATCH FULL COVERAGE

19
00:00:53,016 --> 00:00:56,036
OF THE LAUNCH OF THE FALCON
9 STARTING AT 2 AM EASTERN.

20
00:00:56,456 --> 00:00:58,356
THEN TUNE IN AGAIN
THE FOLLOWING DAY,

21
00:00:58,356 --> 00:01:01,066

MARCH 3RD TO WATCH THE
RENDEZVOUS AND DOCKING

22

00:01:01,116 --> 00:01:03,466
OF THE SPACEX/CREW
DRAGON SPACECRAFT

23

00:01:03,466 --> 00:01:05,076
TO THE INTERNATIONAL
SPACE STATION;

24

00:01:05,566 --> 00:01:07,776
DOCKING SCHEDULED
AT 6 AM EASTERN.

25

00:01:09,076 --> 00:01:11,576
STATION CREWMEMBERS SPENT
TIME THIS WEEK IMMERSED

26

00:01:11,686 --> 00:01:14,626
IN VIRTUAL REALITY, AS PART
OF THE VECTION EXPERIMENT.

27

00:01:15,776 --> 00:01:17,916
VECTION, A CANADIAN
SCIENCE EXPERIMENT,

28

00:01:18,016 --> 00:01:20,376
WILL ASSESS HOW CREWMEMBERS
JUDGE DISTANCES

29

00:01:20,576 --> 00:01:23,296
AND PROCESS THEIR OWN MOVEMENT
WHILE THEY ARE IMMERSED

30

00:01:23,396 --> 00:01:25,026
IN A VIRTUAL REALITY
ENVIRONMENT.

31

00:01:25,376 --> 00:01:28,646

THIS RESEARCH HOPES TO DETERMINE
HOW VISUAL MOTION PERCEPTION,

32

00:01:28,846 --> 00:01:31,076

PERCEIVED ORIENTATION,
AND THE ABILITY

33

00:01:31,076 --> 00:01:34,946

TO ESTIMATE DISTANCES CHANGES
BETWEEN EARTH NORMAL 1-G,

34

00:01:35,216 --> 00:01:36,906

AND THE MICROGRAVITY
ENVIRONMENT.

35

00:01:36,996 --> 00:01:39,746

THE KNOWLEDGE GAINED THROUGH
THIS STUDY WILL HELP DESIGN

36

00:01:39,826 --> 00:01:43,076

SAFER METHODS OF MOVING AROUND
THE INTERNATIONAL SPACE STATION.

37

00:01:43,356 --> 00:01:46,266

IT COULD ALSO HELP FUTURE
ASTRONAUTS LAND SMALL SPACESHIPS

38

00:01:46,576 --> 00:01:48,206

ON LUNAR OR PLANETARY SURFACES.

39

00:01:49,516 --> 00:01:52,526

THIS WEEK'S QUESTION COMES
FROM GRACERITTER6 WHO WANTED

40

00:01:52,586 --> 00:01:55,046

TO HOW DO ASTRONAUTS
KEEP CLEAN IN SPACE.

41

00:01:56,516 --> 00:01:59,256

SINCE WATER DOES NOT FLOW IN

A ZERO-GRAVITY ENVIRONMENT,

42

00:01:59,256 --> 00:02:01,796
ASTRONAUTS CANNOT WASH
THEIR HANDS OR BODIES

43

00:02:01,886 --> 00:02:03,506
UNDER A FAUCET LIKE
WE DO ON EARTH.

44

00:02:03,996 --> 00:02:06,156
THIS MEANS THAT THERE
ARE NO SINKS OR SHOWERS

45

00:02:06,226 --> 00:02:09,656
ON THE SPACE STATION, SO TO KEEP
CLEAN THE ASTRONAUTS USE WET

46

00:02:09,846 --> 00:02:11,936
TOWELS AND A LITTLE SOAP
TO WIPE THEIR BODIES.

47

00:02:12,686 --> 00:02:14,166
WHEN IT COMES TIME
TO WASH THEIR HAIR,

48

00:02:14,416 --> 00:02:16,466
ASTRONAUTS WILL USE
A WATERLESS SHAMPOO.