



**Space**to**Ground**

1  
00:00:02,946 --> 00:00:05,396  
WELCOME TO SPACE TO  
GROUND, I'M LEAH CHESHER.

2  
00:00:05,866 --> 00:00:07,326  
CREW MEMBERS WAVED FAREWELL

3  
00:00:07,326 --> 00:00:09,896  
TO TWO SPACECRAFT THIS  
WEEK UPON THEIR DEPARTURE

4  
00:00:10,006 --> 00:00:11,796  
FROM THE INTERNATIONAL  
SPACE STATION.

5  
00:00:13,156 --> 00:00:18,106  
THE SPACEX DRAGON COMPLETED ITS  
17TH COMMERCIAL RESUPPLY MISSION

6  
00:00:18,256 --> 00:00:21,286  
AFTER RELEASE FROM THE STATION'S  
HARMONY MODULE ON JUNE 3.

7  
00:00:21,806 --> 00:00:24,836  
THE SPACECRAFT ARRIVED TO THE  
ORBITING LABORATORY ON MAY 6,

8  
00:00:25,156 --> 00:00:28,176  
BRINGING ABOUT 5,500  
LBS OF SCIENCE,

9  
00:00:28,176 --> 00:00:29,466  
HARDWARE AND CREW SUPPLIES.

10  
00:00:30,096 --> 00:00:32,176  
DRAGON SPLASHED DOWN  
IN THE PACIFIC OCEAN,

11  
00:00:32,176 --> 00:00:37,026

RETURNING AROUND 4,200 LBS OF  
EXPERIMENTS AND OTHER CARGO.

12  
00:00:37,026 --> 00:00:40,546  
THE RUSSIAN PROGRESS 71  
SPACECRAFT ALSO LEFT THE STATION

13  
00:00:40,546 --> 00:00:41,836  
AFTER A 7 MONTH STAY.

14  
00:00:41,866 --> 00:00:45,066  
WHEN PROGRESS ARRIVED  
IN NOVEMBER 2018,

15  
00:00:45,066 --> 00:00:47,346  
IT BROUGHT WITH IT  
ALMOST 3 TONS OF SUPPLIES.

16  
00:00:47,906 --> 00:00:51,016  
CONTRARY TO THE SPACEX DRAGON,  
PROGRESS IS DESIGNED TO BURN

17  
00:00:51,096 --> 00:00:53,406  
UP UPON REENTRY INTO  
THE EARTH'S ATMOSPHERE,

18  
00:00:53,756 --> 00:00:57,446  
DESTROYING WITH IT TRASH  
AND OTHER CREW DISPOSABLES.

19  
00:00:57,676 --> 00:01:01,166  
AS WE VENTURE FARTHER AWAY FROM  
EARTH, PROVIDING CREWS WITH FOOD

20  
00:01:01,166 --> 00:01:03,646  
AND SUPPLIES WILL TAKE  
LONGER, SO WE'RE LEARNING HOW

21  
00:01:03,646 --> 00:01:05,446  
TO GROW PLANTS IN SPACE.

22

00:01:05,476 --> 00:01:09,006

CURRENTLY, WE'RE STUDYING  
WHAT MIGHT BE ON THE MENU.

23

00:01:09,906 --> 00:01:12,286

THE 4TH VEGGIE EXPERIMENT  
WAS INSTALLED THIS WEEK,

24

00:01:12,626 --> 00:01:15,206

AND CREW MEMBERS WILL  
MONITOR THE CROP - THIS TIME,

25

00:01:15,256 --> 00:01:17,436

MIZUNA MUSTARD - FOR 28 DAYS.

26

00:01:17,766 --> 00:01:21,256

ASTRONAUTS WILL OBSERVE GROWTH  
PATTERNS RELATED TO FERTILIZERS

27

00:01:21,256 --> 00:01:23,926

AND LIGHT QUALITY BEFORE  
CONDUCTING A TASTE TEST

28

00:01:23,926 --> 00:01:25,096

UPON HARVEST.

29

00:01:25,296 --> 00:01:26,906

RESEARCH LIKE THIS IS JUST ONE

30

00:01:26,906 --> 00:01:29,456

OF THE WAYS THE SPACE  
STATION IS HELPING US PREPARE

31

00:01:29,456 --> 00:01:31,006

FOR FUTURE LONG DURATION  
MISSIONS,

32

00:01:31,260 --> 00:01:33,420

LIKE A RETURN TO  
THE MOON BY 2024.

33

00:01:34,780 --> 00:01:36,500

THIS WEEK'S QUESTION  
IS FROM JONATHAN,

34

00:01:36,500 --> 00:01:39,840

WHO WANTS TO KNOW WHAT KIND OF  
LIVING QUARTERS ASTRONAUTS HAVE.

35

00:01:40,100 --> 00:01:43,020

THE SPACE STATION MIGHT BE THE  
SIZE OF A SIX-BEDROOM HOUSE,

36

00:01:43,120 --> 00:01:45,820

BUT THE BEDROOMS THEMSELVES  
AREN'T SO SPACIOUS.

37

00:01:46,820 --> 00:01:49,840

EACH ASTRONAUT AND COSMONAUT  
ON THE SPACE STATION HAS HIS

38

00:01:49,840 --> 00:01:52,640

OR HER OWN PERSONAL SPACE,  
CALLED "CREW QUARTERS."

39

00:01:52,940 --> 00:01:55,500

THESE AREAS ARE ABOUT THE  
SIZE OF A SMALL CLOSET,

40

00:01:55,500 --> 00:01:58,540

AND MANY ASTRONAUTS PERSONALIZE  
THE WALLS WITH PHOTOS FROM HOME.

41

00:01:58,980 --> 00:02:01,640

THIS IS WHERE ASTRONAUTS SLEEP  
OR RELAX, WITH THE ABILITY

42

00:02:01,640 --> 00:02:04,620

TO WATCH MOVIES OR TALK  
TO FAMILY AND FRIENDS.