

SpaceX



Space**to**Ground

1
00:00:05,710 --> 00:00:02,790
foreign

2
00:00:08,629 --> 00:00:05,720
[Music]

3
00:00:10,610 --> 00:00:08,639
I'm Jaden Jennings the first ship

4
00:00:13,190 --> 00:00:10,620
commanded by 18th century British

5
00:00:15,770 --> 00:00:13,200
Explorer James Cook carried the name

6
00:00:17,870 --> 00:00:15,780
over a 19-year period a space shuttle

7
00:00:20,570 --> 00:00:17,880
with the same name flew to space 25

8
00:00:22,550 --> 00:00:20,580
times and soon another spacecraft

9
00:00:25,189 --> 00:00:22,560
bearing that name will take humans to

10
00:00:27,349 --> 00:00:25,199
space for the fourth time

11
00:00:28,730 --> 00:00:27,359
the SpaceX crew astronauts have

12
00:00:30,109 --> 00:00:28,740
officially arrived at Kennedy Space

13
00:00:31,310 --> 00:00:30,119

Center where they will hitch a ride to

14

00:00:34,010 --> 00:00:31,320

the space station on crew Dragon

15

00:00:35,750 --> 00:00:34,020

Endeavor the crew 6 mission is scheduled

16

00:00:37,729 --> 00:00:35,760

to launch from Kennedy early next week

17

00:00:39,470 --> 00:00:37,739

and will carry NASA astronaut Steve

18

00:00:41,450 --> 00:00:39,480

Bowen and Woody hillberg Mission

19

00:00:43,490 --> 00:00:41,460

commander and pilot respectively along

20

00:00:45,590 --> 00:00:43,500

with United Arab Emirates astronaut

21

00:00:48,049 --> 00:00:45,600

Sultan al-nayadi and Rose Cosmos

22

00:00:50,569 --> 00:00:48,059

Cosmonaut Andre vettierrev it's awesome

23

00:00:53,090 --> 00:00:50,579

to fly in space it's awesome to be a

24

00:00:55,670 --> 00:00:53,100

part of the research and the science but

25

00:00:57,889 --> 00:00:55,680

we're also the subjects as well there's

26

00:00:59,689 --> 00:00:57,899

diet studies there's blood studies

27

00:01:02,630 --> 00:00:59,699

there's just an amazing number of

28

00:01:04,729 --> 00:01:02,640

genetic studies if we go outside Eva we

29

00:01:06,649 --> 00:01:04,739

may actually do some sampling on the

30

00:01:09,230 --> 00:01:06,659

outside of the space station and start

31

00:01:10,789 --> 00:01:09,240

trying to characterize any uh biologic

32

00:01:12,950 --> 00:01:10,799

samples that exist outside the space

33

00:01:15,230 --> 00:01:12,960

station that is relevant to our

34

00:01:17,030 --> 00:01:15,240

planetary protection mission that at

35

00:01:19,190 --> 00:01:17,040

Nasa we take very seriously as we think

36

00:01:21,410 --> 00:01:19,200

forward to exploration one very

37

00:01:24,230 --> 00:01:21,420

interesting experiment that I'm looking

38

00:01:27,050 --> 00:01:24,240

really to see is seeing the heart tissue

39

00:01:29,330 --> 00:01:27,060

beating and base this is a Cutting Edge

40

00:01:31,730 --> 00:01:29,340

technology that one day when we started

41

00:01:34,429 --> 00:01:31,740

3D printing organs this is really

42

00:01:36,670 --> 00:01:34,439

important to see how the structure is

43

00:01:39,170 --> 00:01:36,680

built in microgravity

44

00:01:42,289 --> 00:01:39,180

we study how the space environment

45

00:01:46,370 --> 00:01:42,299

affects human beings and how it affects

46

00:01:50,210 --> 00:01:46,380

different materials in space and also we

47

00:01:51,530 --> 00:01:50,220

do earth studies and the studies of the

48

00:01:53,210 --> 00:01:51,540

space itself

49

00:01:54,830 --> 00:01:53,220

you can hear more from the crew 6

50

00:01:56,450 --> 00:01:54,840

astronauts directly ahead of their

51
00:01:58,850 --> 00:01:56,460
mission on this week's edition of

52
00:02:01,069 --> 00:01:58,860
Houston we have a podcast you can listen

53
00:02:03,710 --> 00:02:01,079
to the episode on Apple podcast Google

54
00:02:05,569 --> 00:02:03,720
podcast or SoundCloud or find it on the

55
00:02:07,490 --> 00:02:05,579
NASA Johnson Space Center social media

56
00:02:08,749 --> 00:02:07,500
channels on Facebook Instagram or

57
00:02:11,029 --> 00:02:08,759
Twitter

58
00:02:12,650 --> 00:02:11,039
science is continuing at a quick Pace

59
00:02:13,610 --> 00:02:12,660
ahead of krusic's arrival to the space

60
00:02:15,710 --> 00:02:13,620
station

61
00:02:17,449 --> 00:02:15,720
this week astronauts brought seeds that

62
00:02:19,190 --> 00:02:17,459
were exposed to the harsh environment of

63
00:02:21,650 --> 00:02:19,200

space back into the space station for

64

00:02:23,990 --> 00:02:21,660

further studies the feasibility study on

65

00:02:25,790 --> 00:02:24,000

seed irradiation and space for induced

66

00:02:28,670 --> 00:02:25,800

genetic diversity and plant mutation

67

00:02:30,890 --> 00:02:28,680

breeding investigation exposes seeds of

68

00:02:33,170 --> 00:02:30,900

two plant species to microgravity and

69

00:02:34,670 --> 00:02:33,180

Cosmic radiation inside and outside of

70

00:02:37,010 --> 00:02:34,680

the space station for three to seven

71

00:02:39,110 --> 00:02:37,020

months after return to Earth the seeds

72

00:02:41,449 --> 00:02:39,120

are grown and the biology and Genome of

73

00:02:43,309 --> 00:02:41,459

the plants evaluated what we learned May

74

00:02:45,710 --> 00:02:43,319

Advance breeding to develop crop

75

00:02:47,449 --> 00:02:45,720

varieties able to withstand increasingly

76

00:02:50,050 --> 00:02:47,459

harsh growing environments on earth

77

00:02:52,250 --> 00:02:50,060

created by climate change

78

00:02:54,410 --> 00:02:52,260

and that's space to ground for this week

79

00:02:56,089 --> 00:02:54,420

thanks for watching you can stay up to

80

00:02:58,430 --> 00:02:56,099

date on all things happening on station

81

00:03:00,410 --> 00:02:58,440

by following us on Twitter at space

82

00:03:02,670 --> 00:03:00,420

underscore station we'll see you next

83

00:03:02,680 --> 00:03:16,030

[Music]