



1
00:00:14,709 --> 00:00:12,230
the international space station is a

2
00:00:16,950 --> 00:00:14,719
convergence of science technology and

3
00:00:19,510 --> 00:00:16,960
human innovation and orbiting science

4
00:00:21,349 --> 00:00:19,520
lab where astronauts live work and

5
00:00:23,750 --> 00:00:21,359
prepare for even bolder human

6
00:00:26,310 --> 00:00:23,760
exploration missions with the retirement

7
00:00:28,470 --> 00:00:26,320
of the shuttle program nasa challenged

8
00:00:30,710 --> 00:00:28,480
american industry to provide safe

9
00:00:32,470 --> 00:00:30,720
reliable and affordable transportation

10
00:00:34,470 --> 00:00:32,480
to the space station in order to

11
00:00:37,350 --> 00:00:34,480
maintain u.s leadership in space

12
00:00:39,990 --> 00:00:37,360
exploration and scientific discovery

13
00:00:42,389 --> 00:00:40,000

nasa's commercial partners spacex and

14

00:00:44,709 --> 00:00:42,399

orbital scientists met that challenge

15

00:00:46,790 --> 00:00:44,719

ending our temporary reliance on others

16

00:00:49,110 --> 00:00:46,800

to resupply the station

17

00:00:50,630 --> 00:00:49,120

these american companies are delivering

18

00:00:52,389 --> 00:00:50,640

critical supplies and science

19

00:00:54,790 --> 00:00:52,399

experiments to the international space

20

00:00:56,950 --> 00:00:54,800

station that expand our understanding of

21

00:00:59,270 --> 00:00:56,960

the universe and clear the path for

22

00:01:00,310 --> 00:00:59,280

deeper human exploration into the solar

23

00:01:02,310 --> 00:01:00,320

system

24

00:01:04,789 --> 00:01:02,320

one recently returned investigation

25

00:01:07,030 --> 00:01:04,799

aboard a spacex dragon spacecraft was

26

00:01:09,429 --> 00:01:07,040

the coarsening and solid liquid mixtures

27

00:01:11,670 --> 00:01:09,439

experiment an important trial that will

28

00:01:13,990 --> 00:01:11,680

help american engineers back on earth

29

00:01:16,789 --> 00:01:14,000

develop even more durable and stronger

30

00:01:19,749 --> 00:01:16,799

materials for automobile aircraft and

31

00:01:22,310 --> 00:01:19,759

spacecraft parts the ability to deliver

32

00:01:24,390 --> 00:01:22,320

and return frozen space station cargo

33

00:01:26,469 --> 00:01:24,400

including biological samples is

34

00:01:28,710 --> 00:01:26,479

essential for scientists hoping to

35

00:01:31,429 --> 00:01:28,720

better understand how the human body can

36

00:01:33,830 --> 00:01:31,439

thrive in long-term space flight

37

00:01:36,469 --> 00:01:33,840

these and other important results gained

38

00:01:37,670 --> 00:01:36,479

in space also have direct benefits here

39

00:01:39,910 --> 00:01:37,680

on earth

40

00:01:42,069 --> 00:01:39,920

one experiment on human immune cells

41

00:01:44,389 --> 00:01:42,079

scheduled to fly next year requires

42

00:01:46,310 --> 00:01:44,399

astronauts to access samples very

43

00:01:49,030 --> 00:01:46,320

quickly after the cargo arrives to the

44

00:01:50,950 --> 00:01:49,040

space station space flight capabilities

45

00:01:53,030 --> 00:01:50,960

developed through the cots program make

46

00:01:55,510 --> 00:01:53,040

this experiment possible

47

00:01:57,350 --> 00:01:55,520

with hundreds of ongoing experiments the

48

00:02:00,630 --> 00:01:57,360

international space station will be a

49

00:02:02,789 --> 00:02:00,640

platform of discovery for years to come

50

00:02:04,789 --> 00:02:02,799

the amazing breakthroughs in scientific

51
00:02:07,030 --> 00:02:04,799
research will be made possible and

52
00:02:10,309 --> 00:02:07,040
carried aloft to the orbiting laboratory

53
00:02:11,830 --> 00:02:10,319
by nasa's american partners spacex and

54
00:02:13,830 --> 00:02:11,840
orbital sciences

55
00:02:16,869 --> 00:02:13,840
but the success of nasa's commercial

56
00:02:19,190 --> 00:02:16,879
cargo program is just beginning

57
00:02:21,270 --> 00:02:19,200
soon private american companies will be

58
00:02:24,390 --> 00:02:21,280
transporting our astronauts to the

59
00:02:25,350 --> 00:02:24,400
station on spacecraft launched from u.s

60
00:02:28,070 --> 00:02:25,360
soil

61
00:02:30,550 --> 00:02:28,080
thanks to american ingenuity and nasa's