



1
00:00:07,349 --> 00:00:05,430
to the journey

2
00:00:11,190 --> 00:00:07,359
to the moon itself

3
00:00:14,310 --> 00:00:11,200
history proves that we have never lost

4
00:00:23,269 --> 00:00:14,320
by pressing the limits of our frontiers

5
00:00:28,070 --> 00:00:24,950
first for the coming decade for the

6
00:00:31,429 --> 00:00:28,080
1990s space station freedom

7
00:00:35,270 --> 00:00:31,439
our critical next step in all our space

8
00:00:37,030 --> 00:00:35,280
endeavors and next for the new century

9
00:00:38,549 --> 00:00:37,040
back to the moon

10
00:00:45,350 --> 00:00:38,559
back to the future

11
00:00:50,229 --> 00:00:47,990
and then a journey into tomorrow

12
00:00:55,029 --> 00:00:50,239
a journey to another planet

13
00:00:59,750 --> 00:00:57,670

inspired by the president's declaration

14

00:01:02,229 --> 00:00:59,760

research into ways of permanently

15

00:01:04,469 --> 00:01:02,239

returning to the moon and exploring mars

16

00:01:07,030 --> 00:01:04,479

is accelerating throughout government

17

00:01:09,590 --> 00:01:07,040

industry and academia

18

00:01:11,429 --> 00:01:09,600

inflatable modules protected by lunar

19

00:01:14,390 --> 00:01:11,439

soil and linked together to form an

20

00:01:16,630 --> 00:01:14,400

expandable base are under study

21

00:01:18,950 --> 00:01:16,640

to explore mars engineers are looking

22

00:01:21,190 --> 00:01:18,960

into a number of robotic rovers that

23

00:01:22,630 --> 00:01:21,200

could serve as pathfinders for manned

24

00:01:25,670 --> 00:01:22,640

missions

25

00:01:28,950 --> 00:01:25,680

in this scenario a mars spaceship is

26

00:01:31,429 --> 00:01:28,960

assembled in orbit using a robot arm

27

00:01:46,789 --> 00:01:31,439

heavy launch vehicles haul up its major

28

00:01:51,429 --> 00:01:49,510

once the ship is complete a shuttle

29

00:01:59,350 --> 00:01:51,439

brings in the flight crew

30

00:02:04,870 --> 00:02:01,510

upon reaching the planet a crew-carrying

31

00:02:07,030 --> 00:02:04,880

lander separates from the mothership

32

00:02:09,270 --> 00:02:07,040

guided by information from an earlier

33

00:02:12,309 --> 00:02:09,280

rover mission it is steered to a

34

00:02:16,390 --> 00:02:12,319

pre-planned touchdown spot providing a

35

00:02:18,790 --> 00:02:16,400

base for mars operations

36

00:02:21,350 --> 00:02:18,800

to ensure that no approach to building a

37

00:02:23,350 --> 00:02:21,360

lunar base and exploring mars search for

38

00:02:25,670 --> 00:02:23,360

innovative and new nasa administrator

39

00:02:28,630 --> 00:02:25,680

richard truly recently launched a

40

00:02:32,070 --> 00:02:28,640

nationwide outreach program

41

00:02:34,470 --> 00:02:32,080

seeking new and innovative ideas

42

00:02:36,790 --> 00:02:34,480

the program includes more than 3200

43

00:02:39,350 --> 00:02:36,800

letters from truly to universities and

44

00:02:42,229 --> 00:02:39,360

professional societies an announcement

45

00:02:44,949 --> 00:02:42,239

to industry in commerce business daily

46

00:02:47,270 --> 00:02:44,959

a review of federally sponsored research

47

00:02:50,470 --> 00:02:47,280

and a study by the american institute of

48

00:02:53,110 --> 00:02:50,480

aeronautics and astronautics

49

00:02:55,110 --> 00:02:53,120

nasa has even established this toll-free

50

00:02:58,710 --> 00:02:55,120

telephone number for anyone who would

51

00:03:03,670 --> 00:03:00,710

the outreach effort offers this

52

00:03:08,790 --> 00:03:03,680

country's best and brightest a chance to

53

00:03:11,990 --> 00:03:10,470

station freedom

54

00:03:14,070 --> 00:03:12,000

a lunar base

55

00:03:17,030 --> 00:03:14,080

and journey to mars