



ARTEMIS I

NASA'S PLANS TO
TRAVEL BEYOND
THE MOON

1
00:00:02,869 --> 00:00:01,910
three

2
00:00:03,669 --> 00:00:02,879
two

3
00:00:05,749 --> 00:00:03,679
one

4
00:00:07,510 --> 00:00:05,759
zero

5
00:00:09,669 --> 00:00:07,520
liftoff

6
00:00:12,390 --> 00:00:09,679
artemis one will lift off from launch

7
00:00:15,669 --> 00:00:12,400
pad 39b at nasa's kennedy space center

8
00:00:17,990 --> 00:00:15,679
in florida with 8.8 million pounds of

9
00:00:20,150 --> 00:00:18,000
thrust provided by the most powerful

10
00:00:23,349 --> 00:00:20,160
rocket in the world our space launch

11
00:00:26,470 --> 00:00:23,359
system rocket or sls the uncrewed flight

12
00:00:29,189 --> 00:00:26,480
will be the first integrated test of sls

13
00:00:31,189 --> 00:00:29,199

our new orion spacecraft and exploration

14

00:00:33,670 --> 00:00:31,199

ground systems at kennedy

15

00:00:37,590 --> 00:00:33,680

artemis 1 will send orion beyond the

16

00:00:40,869 --> 00:00:37,600

moon 280 000 miles from earth farther

17

00:00:42,950 --> 00:00:40,879

than any human spacecraft has ever flown

18

00:00:44,790 --> 00:00:42,960

this is not nasa doing this this is the

19

00:00:46,869 --> 00:00:44,800

united states of america doing this this

20

00:00:48,790 --> 00:00:46,879

program the artemis program and there

21

00:00:50,869 --> 00:00:48,800

are companies all across our country

22

00:00:52,310 --> 00:00:50,879

that have a part in it so there is kind

23

00:00:54,069 --> 00:00:52,320

of this wave of excitement being

24

00:00:55,750 --> 00:00:54,079

generated just by saying we're going

25

00:00:57,430 --> 00:00:55,760

back to the moon

26

00:00:59,590 --> 00:00:57,440

after the upper stage of the rocket

27

00:01:01,590 --> 00:00:59,600

separates from orion the upper stage

28

00:01:03,430 --> 00:01:01,600

will deploy small satellites over

29

00:01:04,869 --> 00:01:03,440

several days to perform science

30

00:01:07,190 --> 00:01:04,879

experiments and technology

31

00:01:09,510 --> 00:01:07,200

demonstrations orion will make its

32

00:01:11,590 --> 00:01:09,520

multi-day outbound trip to the moon

33

00:01:13,910 --> 00:01:11,600

propelled by a service module provided

34

00:01:16,070 --> 00:01:13,920

by the european space agency

35

00:01:18,630 --> 00:01:16,080

engineers will test orion's systems on

36

00:01:21,510 --> 00:01:18,640

the way to the moon then orion will fly

37

00:01:23,670 --> 00:01:21,520

about 60 miles above the lunar surface

38

00:01:25,749 --> 00:01:23,680

using the moon's gravity and engines on

39

00:01:27,749 --> 00:01:25,759

the surface module to enter a lunar

40

00:01:30,149 --> 00:01:27,759

orbit

41

00:01:32,789 --> 00:01:30,159

after about a month and a total distance

42

00:01:35,590 --> 00:01:32,799

of over a million miles orion will

43

00:01:38,710 --> 00:01:35,600

return home faster and hotter than any

44

00:01:41,910 --> 00:01:38,720

spacecraft has before a primary goal of

45

00:01:44,630 --> 00:01:41,920

artemis 1 ensure orion safely returns to

46

00:01:46,710 --> 00:01:44,640

earth before we fly with humans when we

47

00:01:49,429 --> 00:01:46,720

do we'll build our capability for

48

00:01:51,590 --> 00:01:49,439

sustainable lunar exploration preparing

49

00:01:55,590 --> 00:01:51,600

us for missions farther into the solar

50

00:01:59,670 --> 00:01:57,429

initially what we'd like to do is start

51
00:02:00,950 --> 00:01:59,680
establishing a presence on the moon so

52
00:02:02,870 --> 00:02:00,960
we're going to establish going back

53
00:02:05,350 --> 00:02:02,880
there on a regular basis and then we'll

54
00:02:07,830 --> 00:02:05,360
end up setting up gateway and we would

55
00:02:11,350 --> 00:02:07,840
launch to the gateway and from gateway

56
00:02:15,990 --> 00:02:13,750
we are there for you know weeks months

57
00:02:17,589 --> 00:02:16,000
on end and there we'll be able to test

58
00:02:19,270 --> 00:02:17,599
out all the hardware and the habitats

59
00:02:21,510 --> 00:02:19,280
and the hatches and the suits and the

60
00:02:24,710 --> 00:02:21,520
rovers that'll allow us to prove out

61
00:02:27,670 --> 00:02:26,309
the moon will lead the way to mars and

62
00:02:29,020 --> 00:02:27,680
we should be there within the next