

An aerial photograph of a rocket launch complex, likely the Kennedy Space Center, showing the launch pad, service towers, and surrounding infrastructure. The text "WE ARE READY" is overlaid in large white letters across the center of the image.

WE ARE READY

1
00:00:01,920 --> 00:00:07,600
artemis stands ready
ready to turn dreams into reality

2
00:00:07,600 --> 00:00:12,960
ready to return humanity to the moon and
take us further than ever before

3
00:00:12,960 --> 00:00:16,880
the culmination of inspiration and
innovation of herculean efforts and

4
00:00:16,880 --> 00:00:22,160
steadfast collaboration artemis 1 is
ready for departure

5
00:00:22,160 --> 00:00:27,279
and the artemis generation is about to
leave its mark

6
00:00:29,279 --> 00:00:32,480
what will be a journey of more than a
half a million miles to the moon and

7
00:00:32,480 --> 00:00:36,000
back
starts right here at launch complex 39

8
00:00:36,000 --> 00:00:38,559
bravo
although this first flight will not

9
00:00:38,559 --> 00:00:43,040
carry a crew it will test every system
in the deep depths of space to prepare

10
00:00:43,040 --> 00:00:46,640
the way for future crewed missions

11

00:00:47,280 --> 00:00:51,360
when the final go is given and the teams
at kennedy space center release this

12
00:00:51,360 --> 00:00:55,520
rocket arms will roar to life and we
will witness the beginning of a tightly

13
00:00:55,520 --> 00:00:59,079
choreographed mission

14
00:01:08,720 --> 00:01:14,400
the first two and a half minutes lift
artemis off earth and build momentum

15
00:01:14,720 --> 00:01:19,360
it's another six minutes of pressing
uphill accelerating to orbit

16
00:01:19,360 --> 00:01:24,320
this is followed by push from the second
stage to raise orion higher

17
00:01:24,320 --> 00:01:27,840
and once all the systems are cleared to
continue the second stage will fire

18
00:01:27,840 --> 00:01:32,640
again and push orion beyond the bounds
of earth

19
00:01:32,880 --> 00:01:38,240
at this point we're going to the moon
it'll take several days to reach our

20
00:01:38,240 --> 00:01:42,240
destination but as we sprint across the
void many new procedures and systems

21
00:01:42,240 --> 00:01:49,040

will be tested and proven
240 thousand miles later orion will

22
00:01:49,040 --> 00:01:53,920
enter an oval-shaped orbit around the
moon one that will take orion to about

23
00:01:53,920 --> 00:02:00,960
60 miles above the lunar surface and
then out to 40 000 miles beyond the moon

24
00:02:00,960 --> 00:02:05,680
this is a distance farther than any
human rated spacecraft has ever gone

25
00:02:05,680 --> 00:02:08,680
before

26
00:02:17,440 --> 00:02:21,360
as momentous as reaching the moon will
be returning to earth is just as

27
00:02:21,360 --> 00:02:24,959
significant and challenging

28
00:02:25,840 --> 00:02:29,920
every observation we make every lesson
we learn on this journey prepares the

29
00:02:29,920 --> 00:02:34,959
way for humans to safely venture out and
return home

30
00:02:34,959 --> 00:02:39,519
and so on its final lap around the moon
orion will ignite its main engine push

31
00:02:39,519 --> 00:02:43,599
out of lunar orbit and begin the long
trek home

32

00:02:43,599 --> 00:02:47,200

this is a spacecraft built for the harsh conditions of deep space as well as

33

00:02:47,200 --> 00:02:51,319

intensity of returning home

34

00:02:53,519 --> 00:02:57,040

nearing earth orion separates from the main power and propulsion systems of the

35

00:02:57,040 --> 00:03:02,560

european service module and prepares for the final sequence of events

36

00:03:03,120 --> 00:03:07,840

entering earth's atmosphere at 24 500 miles per hour the heat shield endures

37

00:03:07,840 --> 00:03:11,840

the fury of re-entry
the air around orion reaches

38

00:03:11,840 --> 00:03:17,800

temperatures half as hot as the sun but also slows orion considerably

39

00:03:18,319 --> 00:03:22,159

until finally
parachutes can deploy allowing orion to

40

00:03:22,159 --> 00:03:26,080

gently dip into the pacific ocean

41

00:03:29,760 --> 00:03:35,440

to the moon and safely home again
this is the journey of artemis one and

42

00:03:35,440 --> 00:03:40,080

it will set the precedent for all that
follows

43

00:03:41,360 --> 00:03:46,959

united with partners around the world
this is the challenge we choose

44

00:03:46,959 --> 00:03:50,319

to meet hand in hand
step by step

45

00:03:50,319 --> 00:03:53,280

lighting the way
from the earth

46

00:03:53,280 --> 00:03:56,080

to the moon
to mars