

[Animations]



CURIOSITY



PERSEVERANCE



INGENUITY

1
00:00:08,230 --> 00:00:05,670

[Music]

2
00:00:10,709 --> 00:00:08,240

nasa's explorers on mars are on the move

3
00:00:14,470 --> 00:00:10,719

and making new discoveries

4
00:00:16,710 --> 00:00:14,480

it's a journey you can be a part of too

5
00:00:19,910 --> 00:00:16,720

nasa's curiosity rover which has been

6
00:00:23,109 --> 00:00:19,920

climbing mount sharp since 2014 is about

7
00:00:25,189 --> 00:00:23,119

to drive up onto a broad sloping surface

8
00:00:26,950 --> 00:00:25,199

called the green hue pediment

9
00:00:29,830 --> 00:00:26,960

this will allow scientists to fast

10
00:00:32,630 --> 00:00:29,840

forward perhaps millions of years in

11
00:00:34,709 --> 00:00:32,640

mars's history and study the history of

12
00:00:36,790 --> 00:00:34,719

liquid water written into these

13
00:00:38,790 --> 00:00:36,800

different layers of rock

14

00:00:40,950 --> 00:00:38,800

and curiosity made some interesting

15

00:00:43,270 --> 00:00:40,960

discoveries along the way

16

00:00:46,229 --> 00:00:43,280

less than half an inch in size this

17

00:00:48,869 --> 00:00:46,239

unusual feature eroded from sedimentary

18

00:00:50,549 --> 00:00:48,879

rock was cemented by mineral-rich

19

00:00:53,350 --> 00:00:50,559

groundwater

20

00:00:55,350 --> 00:00:53,360

and check out this rock smoothly eroded

21

00:00:57,670 --> 00:00:55,360

by winds

22

00:00:59,510 --> 00:00:57,680

over in jezreel crater the perseverance

23

00:01:02,709 --> 00:00:59,520

rover is getting ready for a new

24

00:01:04,630 --> 00:01:02,719

destination and science campaign

25

00:01:06,710 --> 00:01:04,640

and it's consistently setting driving

26

00:01:08,870 --> 00:01:06,720

records on mars by relying more on

27

00:01:11,190 --> 00:01:08,880

self-driving software that allows the

28

00:01:14,149 --> 00:01:11,200

rover to avoid obstacles without having

29

00:01:16,550 --> 00:01:14,159

to consult a human on earth

30

00:01:18,630 --> 00:01:16,560

perseverance will be pushing north in an

31

00:01:20,230 --> 00:01:18,640

area where an ancient river flowed into

32

00:01:22,310 --> 00:01:20,240

a body of water

33

00:01:23,350 --> 00:01:22,320

it left sediments in a shape called a

34

00:01:25,670 --> 00:01:23,360

delta

35

00:01:26,870 --> 00:01:25,680

the rover will collect more rock samples

36

00:01:28,950 --> 00:01:26,880

there

37

00:01:31,030 --> 00:01:28,960

the ingenuity mars helicopter will

38

00:01:32,230 --> 00:01:31,040

support perseverance's upcoming science

39

00:01:34,069 --> 00:01:32,240

campaign

40

00:01:36,710 --> 00:01:34,079

the helicopter has been given the green

41

00:01:38,630 --> 00:01:36,720

light to try to keep flying on mars for

42

00:01:40,870 --> 00:01:38,640

the next few months

43

00:01:44,469 --> 00:01:40,880

upgrades to its navigation software will

44

00:01:46,310 --> 00:01:44,479

improve flight and operational safety

45

00:01:48,710 --> 00:01:46,320

the mars explorers will document the

46

00:01:50,310 --> 00:01:48,720

journey along the way and you can make

47

00:01:52,870 --> 00:01:50,320

your own discoveries

48

00:01:55,749 --> 00:01:52,880

visit the raw image pages to see the

49

00:01:57,270 --> 00:01:55,759

latest images every day and vote for

50

00:02:00,149 --> 00:01:57,280

your favorites

51

00:02:04,550 --> 00:02:00,159

to get the latest updates follow at nasa

52

00:02:06,389 --> 00:02:04,560

jpl and at nasa mars on social media or

53

00:02:09,790 --> 00:02:06,399

take a deeper dive on the mission