

# KENNEDY COUNTDOWN



1  
00:00:05,670 --> 00:00:03,030  
i'm jasmine hopkins and this is kennedy

2  
00:00:10,709 --> 00:00:08,870  
[Music]

3  
00:00:12,310 --> 00:00:10,719  
final preparations are underway at

4  
00:00:14,950 --> 00:00:12,320  
vandenberg space force base in

5  
00:00:18,150 --> 00:00:14,960  
california for nasa's double asteroid

6  
00:00:19,910 --> 00:00:18,160  
redirection test or dart spacecraft

7  
00:00:22,390 --> 00:00:19,920  
dart is scheduled to launch aboard a

8  
00:00:25,509 --> 00:00:22,400  
spacex falcon 9 rocket from vandenberg's

9  
00:00:28,470 --> 00:00:25,519  
space launch complex 4 at 10 21 pm

10  
00:00:29,990 --> 00:00:28,480  
pacific time on november 23rd

11  
00:00:32,470 --> 00:00:30,000  
the dart mission will intentionally

12  
00:00:34,549 --> 00:00:32,480  
crash the spacecraft into an asteroid to

13  
00:00:36,389 --> 00:00:34,559

see if it's an effective way to change

14

00:00:38,790 --> 00:00:36,399

the asteroid's course while dart's

15

00:00:40,069 --> 00:00:38,800

target asteroid is not a threat to earth

16

00:00:42,150 --> 00:00:40,079

this mission will determine the

17

00:00:43,510 --> 00:00:42,160

effectiveness of such an approach should

18

00:00:45,590 --> 00:00:43,520

an earth-threatening asteroid be

19

00:00:47,510 --> 00:00:45,600

discovered in the future

20

00:00:49,190 --> 00:00:47,520

nasa's launch services program based at

21

00:00:51,750 --> 00:00:49,200

kennedy space center in florida is

22

00:00:54,229 --> 00:00:51,760

managing the launch

23

00:00:56,310 --> 00:00:54,239

the imaging x-ray polarimetry explorer

24

00:00:58,310 --> 00:00:56,320

or xp spacecraft arrived at the cape

25

00:01:00,470 --> 00:00:58,320

canaveral space force station in florida

26

00:01:02,790 --> 00:01:00,480

earlier this month nasa's first mission

27

00:01:04,549 --> 00:01:02,800

of this kind ixp will study x-rays

28

00:01:07,510 --> 00:01:04,559

coming from some of the universe's most

29

00:01:10,070 --> 00:01:07,520

extreme sources including black holes

30

00:01:12,310 --> 00:01:10,080

and dead stars known as pulsars

31

00:01:14,149 --> 00:01:12,320

xp will fly three space telescopes with

32

00:01:16,870 --> 00:01:14,159

sensitive detectors to measure the

33

00:01:18,710 --> 00:01:16,880

polarization of cosmic x-rays allowing

34

00:01:20,870 --> 00:01:18,720

astronomers to answer fundamental

35

00:01:22,789 --> 00:01:20,880

questions about these extremely complex

36

00:01:24,950 --> 00:01:22,799

environments where gravitational

37

00:01:26,469 --> 00:01:24,960

electric and magnetic fields are at

38

00:01:28,149 --> 00:01:26,479

their limits

39

00:01:29,830 --> 00:01:28,159

teams expect to integrate the xp

40

00:01:31,749 --> 00:01:29,840

spacecraft with the launch vehicle

41

00:01:33,670 --> 00:01:31,759

during the last week of november in

42

00:01:35,990 --> 00:01:33,680

preparation for a december 9th launch

43

00:01:39,030 --> 00:01:36,000

aboard a spacex falcon 9 vehicle from

44

00:01:40,630 --> 00:01:39,040

kennedy's launch complex 39a this launch

45

00:01:44,710 --> 00:01:40,640

is also managed by nasa's launch

46

00:01:49,109 --> 00:01:46,630

to keep up with kennedy check us out on