MISSION OVERVIEW

1
00:00:06,070 --> 00:00:02,629
[Music]

2
00:00:07,990 --> 00:00:06,080
i'm kayla barron a mission specialist

3
00:00:10,549 --> 00:00:08,000
hi i'm isa astronaut matthias modern i

4
00:00:14,070 --> 00:00:10,559
would be mission specialist

5
00:00:15,990 --> 00:00:14,080
my name is tom marshburn i'm the pilot

6
00:00:17,510 --> 00:00:16,000
i'm raj achary the commander of the nasa

7
00:00:32,549 --> 00:00:17,520
spacex crew 3 mission to the

8
00:00:37,430 --> 00:00:34,870
so the crew 3 mission is on the nasa

9
00:00:39,510 --> 00:00:37,440
spacex commercial space vehicle

10
00:00:41,270 --> 00:00:39,520
to the international space station we

11
00:00:43,510 --> 00:00:41,280
will be working on the international

12
00:00:45,270 --> 00:00:43,520
space station for around six months

13
00:00:48,389 --> 00:00:45,280

doing lots of experiments lots of

14
00:00:50,790 --> 00:00:48,399
science and crew dragon is one of our

15
00:00:52,709 --> 00:00:50,800
newest ways to get there

16
00:00:54,069 --> 00:00:52,719
there have been soyuz that have flown to

17
00:00:55,910 --> 00:00:54,079
the international space station with

18
00:00:57,830 --> 00:00:55,920
crew the space shuttle flew to the

19
00:00:59,990 --> 00:00:57,840
international space station and now the

20
00:01:01,670 --> 00:01:00,000
crew dragon is taking human beings to

21
00:01:03,430 --> 00:01:01,680
the international space station so we've

22
00:01:05,830 --> 00:01:03,440
partnered with spacex in the commercial

23
00:01:08,070 --> 00:01:05,840
crew program they design build and

24
00:01:09,750 --> 00:01:08,080
operate these vehicles that take us

25
00:01:11,510 --> 00:01:09,760
transport us to the international space

26
00:01:13,830 --> 00:01:11,520
station so that we can contribute to the

27
00:01:15,590 --> 00:01:13,840
amazing work that we're doing up there

28
00:01:17,830 --> 00:01:15,600
yeah you know it's it's exciting to fly

29
00:01:19,429 --> 00:01:17,840
on a new spaceship for sure and the

30
00:01:21,590 --> 00:01:19,439
newly designed a new design of a

31
00:01:22,950 --> 00:01:21,600
spaceship but i'm looking forward more

32
00:01:24,870 --> 00:01:22,960
to flying with three people that haven't

33
00:01:26,789 --> 00:01:24,880
flown in space before

34
00:01:30,069 --> 00:01:26,799
this is a very unique crew they are

35
00:01:32,550 --> 00:01:30,079
incredibly operationally savvy already

36
00:01:34,069 --> 00:01:32,560
so what i try to do is if there's any

37
00:01:35,350 --> 00:01:34,079
gaps in their knowledge of how they're

38
00:01:37,429 --> 00:01:35,360

going to feel how they're going to

39
00:01:40,310 --> 00:01:37,439
operate what is the zero gravity going

40
00:01:44,630 --> 00:01:40,320
to be like how that might challenge our

41
00:01:50,710 --> 00:01:47,109
so you really feel like you've become a

42
00:01:52,149 --> 00:01:50,720
resident of space a resident of zero g

43
00:01:54,789 --> 00:01:52,159
and you start to feel like you're

44
00:01:57,350 --> 00:01:54,799
getting an idea of how this works

45
00:01:58,550 --> 00:01:57,360
every day is long series of problem

46
00:02:00,389 --> 00:01:58,560
solving you got to figure out where to

47
00:02:02,709 --> 00:02:00,399
put your pencil where to put your drink

48
00:02:04,469 --> 00:02:02,719
if you have it so maybe 10 000 times a

49
00:02:06,950 --> 00:02:04,479
day you're solving little problems like

50
00:02:08,229 --> 00:02:06,960
this and when that becomes fluid

51
00:02:09,990 --> 00:02:08,239
then you really feel like you can be

52
00:02:11,750 --> 00:02:10,000
efficient and

53
00:02:13,750 --> 00:02:11,760
get a lot of work done and there's a lot

54
00:02:14,710 --> 00:02:13,760
of work to get done on the space station

55
00:02:15,990 --> 00:02:14,720
right now

56
00:02:17,670 --> 00:02:16,000
we spend a lot of our time training in

57
00:02:20,070 --> 00:02:17,680
dragon because that's a really dynamic

58
00:02:22,229 --> 00:02:20,080
phase of the mission but it's just such

59
00:02:24,390 --> 00:02:22,239
a tiny fraction the whole point is going

60
00:02:26,390 --> 00:02:24,400
to the space station and doing some

61
00:02:28,710 --> 00:02:26,400
incredible work up there so our time on

62
00:02:30,869 --> 00:02:28,720
the space station is spent one keeping

63
00:02:32,309 --> 00:02:30,879

the space station healthy it's been up

64
00:02:34,070 --> 00:02:32,319
there for 20 years there's a lot of

65
00:02:35,110 --> 00:02:34,080
systems that need maintenance and

66
00:02:37,030 --> 00:02:35,120
upgrades

67
00:02:38,790 --> 00:02:37,040
and operators there to keep them working

68
00:02:41,350 --> 00:02:38,800
well but we also do some incredible

69
00:02:43,190 --> 00:02:41,360
science the space station is a national

70
00:02:45,750 --> 00:02:43,200
laboratory orbiting around the earth and

71
00:02:47,270 --> 00:02:45,760
it's a really really unique environment

72
00:02:49,110 --> 00:02:47,280
once we arrive on the international

73
00:02:51,589 --> 00:02:49,120
space station we will run a lot of

74
00:02:54,229 --> 00:02:51,599
experiments i'm a material science

75
00:02:56,309 --> 00:02:54,239
engineer and so my focus will be lots of

76
00:02:58,710 --> 00:02:56,319
experiments in the materials science

77
00:02:59,990 --> 00:02:58,720
domain but also life sciences will be

78
00:03:01,750 --> 00:03:00,000
very important

79
00:03:03,509 --> 00:03:01,760
there's all kinds of research going on

80
00:03:04,949 --> 00:03:03,519
on a daily basis that lead to just

81
00:03:06,790 --> 00:03:04,959
fundamental changes in the way we

82
00:03:09,190 --> 00:03:06,800
understand how our world works i will

83
00:03:10,630 --> 00:03:09,200
definitely be the eyes ears hands and

84
00:03:12,790 --> 00:03:10,640
the actuator for the experiments that

85
00:03:15,270 --> 00:03:12,800
help lead to the science the discoveries

86
00:03:17,750 --> 00:03:15,280
that can push our species further both

87
00:03:19,670 --> 00:03:17,760
beyond the plant and just understand and

88
00:03:21,509 --> 00:03:19,680

operate on our earth even better

89
00:03:23,670 --> 00:03:21,519
one of the great legacies of the space

90
00:03:24,869 --> 00:03:23,680
station is not just going to be

91
00:03:26,550 --> 00:03:24,879
the science

92
00:03:29,350 --> 00:03:26,560
but very importantly the international

93
00:03:31,589 --> 00:03:29,360
cooperation this is one of the first

94
00:03:33,190 --> 00:03:31,599
certainly today's perhaps most prominent

95
00:03:35,910 --> 00:03:33,200
international cooperation for

96
00:03:38,309 --> 00:03:35,920
exploration it's not for survival it's

97
00:03:41,509 --> 00:03:38,319
not for competition in the marketplace

98
00:03:44,550 --> 00:03:41,519
it is for just exploration i think we're

99
00:03:46,949 --> 00:03:44,560
now about to enter a new era of human

100
00:03:48,710 --> 00:03:46,959
space flight in the past we astronauts

101
00:03:51,509 --> 00:03:48,720
flew to the international space station

102
00:03:53,509 --> 00:03:51,519
to do purely science now the station

103
00:03:55,190 --> 00:03:53,519
will become more and more commercial

104
00:03:57,750 --> 00:03:55,200
there are commercial experiments on one

105
00:03:59,910 --> 00:03:57,760
side but there are also commercial

106
00:04:02,869 --> 00:03:59,920
astronauts who come up to run maybe

107
00:04:05,509 --> 00:04:02,879
their own science programs but also to

108
00:04:08,309 --> 00:04:05,519
enjoy just being up in space to

109
00:04:11,429 --> 00:04:08,319
experience space and to convey this

110
00:04:20,949 --> 00:04:11,439
message the fascination of space to all

111
00:04:29,749 --> 00:04:23,620
subscribe for more space