



1
00:00:08,030 --> 00:00:02,090
cooperation between

2
00:00:08,040 --> 00:00:14,910
countries discovery clears the tower

3
00:00:14,920 --> 00:00:26,990
discovery you everybody

4
00:00:41,350 --> 00:00:33,260
[Music]

5
00:00:47,750 --> 00:00:44,310
good afternoon and welcome to a q a with

6
00:00:49,670 --> 00:00:47,760
the nasa spacex crew 1 astronauts before

7
00:00:51,670 --> 00:00:49,680
their launch aboard the spacex crew

8
00:00:53,670 --> 00:00:51,680
dragon to the international space

9
00:00:57,350 --> 00:00:53,680
station which is scheduled for this

10
00:00:58,709 --> 00:00:57,360
saturday november 14th at 7 49 pm

11
00:01:01,270 --> 00:00:58,719
eastern time

12
00:01:02,229 --> 00:01:01,280
from left our mission specialist shannon

13
00:01:05,189 --> 00:01:02,239

walker

14

00:01:07,830 --> 00:01:05,199

pilot victor glover and crew dragon

15

00:01:09,109 --> 00:01:07,840

commander mike hawkins all nasa

16

00:01:10,830 --> 00:01:09,119

astronauts

17

00:01:14,230 --> 00:01:10,840

and mission specialist

18

00:01:15,590 --> 00:01:14,240

suici japan aerospace exploration agency

19

00:01:17,830 --> 00:01:15,600

astronaut

20

00:01:20,630 --> 00:01:17,840

nasa's spacex crew 1 mission is the

21

00:01:23,270 --> 00:01:20,640

first crew rotational flight of the u.s

22

00:01:25,350 --> 00:01:23,280

commercial spacecraft with astronauts to

23

00:01:27,510 --> 00:01:25,360

the international space station

24

00:01:29,749 --> 00:01:27,520

the crew arrived to nasa's kennedy space

25

00:01:32,230 --> 00:01:29,759

center in florida yesterday and is

26

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

joining us from crew quarters we'll give

27

00:01:35,670 --> 00:01:34,079

them a chance to make brief remarks and

28

00:01:37,670 --> 00:01:35,680

then we'll take questions from the phone

29

00:01:39,910 --> 00:01:37,680

line and social media

30

00:01:41,670 --> 00:01:39,920

participants on the phone can press star

31

00:01:43,990 --> 00:01:41,680

one to let us know that you have a

32

00:01:46,630 --> 00:01:44,000

question and those joining us at home

33

00:01:50,230 --> 00:01:46,640

can ask questions on social media using

34

00:01:52,230 --> 00:01:50,240

the hashtag asknasa with that over to

35

00:01:54,789 --> 00:01:52,240

you mike

36

00:01:56,870 --> 00:01:54,799

okay thanks megan and good afternoon and

37

00:01:59,030 --> 00:01:56,880

thank you to everyone that is joining us

38

00:02:01,830 --> 00:01:59,040

today as you can imagine we're very

39

00:02:03,670 --> 00:02:01,840

excited to be here in florida at kennedy

40

00:02:05,190 --> 00:02:03,680

space center for the final days before

41

00:02:06,310 --> 00:02:05,200

our launch to the international space

42

00:02:08,309 --> 00:02:06,320

station

43

00:02:12,229 --> 00:02:08,319

it's pretty amazing we've been here less

44

00:02:14,790 --> 00:02:12,239

than 24 hours and in that time we have

45

00:02:16,710 --> 00:02:14,800

seen our rocket we've seen our space

46

00:02:19,030 --> 00:02:16,720

vehicle resilience and we've seen our

47

00:02:21,110 --> 00:02:19,040

spacesuits and so for an astronaut

48

00:02:23,270 --> 00:02:21,120

that's considered a pretty good day

49

00:02:25,270 --> 00:02:23,280

um as we speak to you today though we do

50

00:02:27,830 --> 00:02:25,280

want to acknowledge that there are final

51
00:02:29,750 --> 00:02:27,840
preparations on the vehicle the hardware

52
00:02:32,390 --> 00:02:29,760
that are ongoing as well as final

53
00:02:34,630 --> 00:02:32,400
reviews at the agency level and so the

54
00:02:37,830 --> 00:02:34,640
the number of people that are supporting

55
00:02:39,830 --> 00:02:37,840
uh this launches are many and uh and so

56
00:02:42,150 --> 00:02:39,840
we just want to say thank you to all of

57
00:02:43,509 --> 00:02:42,160
them that are that are making this uh

58
00:02:46,630 --> 00:02:43,519
this happen

59
00:02:49,830 --> 00:02:46,640
um as a crew we are ready um we are

60
00:02:51,589 --> 00:02:49,840
ready for this launch we are ready for

61
00:02:53,270 --> 00:02:51,599
the six months of work that is waiting

62
00:02:57,110 --> 00:02:53,280
for us on board the international space

63
00:02:59,830 --> 00:02:57,120

station and we are ready for the return

64

00:03:02,309 --> 00:02:59,840

and finally i just i want to say thank

65

00:03:05,350 --> 00:03:02,319

you thank you to our families thank you

66

00:03:07,589 --> 00:03:05,360

to all the people at nasa at spacex and

67

00:03:11,910 --> 00:03:07,599

around the world that have helped us get

68

00:03:15,670 --> 00:03:13,830

thank you all right we don't have a lot

69

00:03:16,710 --> 00:03:15,680

of time so let's go straight into

70

00:03:18,949 --> 00:03:16,720

questions

71

00:03:21,509 --> 00:03:18,959

let's start with bill harwood with cbs

72

00:03:25,030 --> 00:03:23,190

hey guys it's bill harwood over here at

73

00:03:26,789 --> 00:03:25,040

the kennedy space center um

74

00:03:28,550 --> 00:03:26,799

i guess this is for mike you know this

75

00:03:29,830 --> 00:03:28,560

is the first operational flight of a

76

00:03:32,390 --> 00:03:29,840

crew dragon

77

00:03:33,190 --> 00:03:32,400

tell us why it's so important to both

78

00:03:35,430 --> 00:03:33,200

uh

79

00:03:36,789 --> 00:03:35,440

for to end nasa's sole reliance on the

80

00:03:39,270 --> 00:03:36,799

soyuz

81

00:03:41,589 --> 00:03:39,280

and the value of getting four usos crew

82

00:03:44,550 --> 00:03:41,599

on station for the foreseeable future

83

00:03:46,390 --> 00:03:44,560

from a science standpoint thanks

84

00:03:47,830 --> 00:03:46,400

you bethel hey uh thanks for the

85

00:03:50,149 --> 00:03:47,840

question and

86

00:03:52,309 --> 00:03:50,159

you know i think um first of all i'd say

87

00:03:54,949 --> 00:03:52,319

that our relationship that we've had

88

00:03:56,470 --> 00:03:54,959

with our russian partners and the the

89

00:03:58,229 --> 00:03:56,480

ability to fly with them to the

90

00:04:01,110 --> 00:03:58,239

international space station on the soyuz

91

00:04:03,350 --> 00:04:01,120

has been fantastic that has been a great

92

00:04:04,309 --> 00:04:03,360

relationship that we've relied on over

93

00:04:06,789 --> 00:04:04,319

the years

94

00:04:08,309 --> 00:04:06,799

but at the same time it's also good to

95

00:04:09,910 --> 00:04:08,319

have your own capabilities and it's

96

00:04:12,070 --> 00:04:09,920

great for our country it's great for the

97

00:04:13,910 --> 00:04:12,080

world to have options in terms of

98

00:04:14,710 --> 00:04:13,920

getting into space and so i think you're

99

00:04:17,590 --> 00:04:14,720

seeing

100

00:04:19,430 --> 00:04:17,600

uh this growth in this capability not

101
00:04:21,110 --> 00:04:19,440
only just the ability to get humans into

102
00:04:23,510 --> 00:04:21,120
space but you've seen it already with

103
00:04:26,070 --> 00:04:23,520
the ability to get cargo into space and

104
00:04:28,790 --> 00:04:26,080
and so this is just another step on that

105
00:04:30,469 --> 00:04:28,800
process and then i am really excited as

106
00:04:31,749 --> 00:04:30,479
you mentioned to see what it's going to

107
00:04:34,790 --> 00:04:31,759
be like when we're actually going to

108
00:04:36,230 --> 00:04:34,800
have five uh us os crew members on board

109
00:04:37,990 --> 00:04:36,240
the international space station along

110
00:04:40,070 --> 00:04:38,000
with our two russian colleagues they'll

111
00:04:41,990 --> 00:04:40,080
be up there with us but it's going to be

112
00:04:43,189 --> 00:04:42,000
exciting to see how much work we're

113
00:04:44,310 --> 00:04:43,199

going to be able to get done while we're

114

00:04:45,830 --> 00:04:44,320

there

115

00:04:47,350 --> 00:04:45,840

and so i know they've got a plan we

116

00:04:49,909 --> 00:04:47,360

actually yesterday had a chance to kind

117

00:04:51,350 --> 00:04:49,919

of see what that first week looks like

118

00:04:52,550 --> 00:04:51,360

and already there's not a lot of great

119

00:04:57,189 --> 00:04:52,560

space on there so i think they're going

120

00:05:07,430 --> 00:04:59,350

all right let's go to chris davenport

121

00:05:11,670 --> 00:05:09,430

hopkins i mean human space flight's

122

00:05:13,670 --> 00:05:11,680

always a challenge but here you've got

123

00:05:14,710 --> 00:05:13,680

sort of this double whammy of a pandemic

124

00:05:16,629 --> 00:05:14,720

and now

125

00:05:18,550 --> 00:05:16,639

potentially this tropical storm bearing

126
00:05:20,870 --> 00:05:18,560
down and just wondering what impact

127
00:05:22,230 --> 00:05:20,880
that's having on you all and what if any

128
00:05:25,990 --> 00:05:22,240
effect is having on all your

129
00:05:30,390 --> 00:05:28,790
well it is 2020. so

130
00:05:32,550 --> 00:05:30,400
i guess the tropical storm we're not

131
00:05:35,189 --> 00:05:32,560
surprised by by that

132
00:05:37,029 --> 00:05:35,199
um it has been interesting in fact you

133
00:05:38,870 --> 00:05:37,039
know victor and i we've been

134
00:05:40,310 --> 00:05:38,880
training for this mission for about two

135
00:05:42,390 --> 00:05:40,320
years a little over two years now

136
00:05:45,110 --> 00:05:42,400
shannon and suici that they joined us

137
00:05:45,990 --> 00:05:45,120
about the time the pandemic started and

138
00:05:47,270 --> 00:05:46,000

and so

139

00:05:50,230 --> 00:05:47,280

as far as they've been concerned they

140

00:05:52,629 --> 00:05:50,240

haven't known training without having to

141

00:05:55,110 --> 00:05:52,639

work around the pandemic and uh that's

142

00:05:56,469 --> 00:05:55,120

really uh we've had to do some some

143

00:05:59,189 --> 00:05:56,479

special things to make that happen

144

00:06:01,749 --> 00:05:59,199

that's hap not only to protect us but

145

00:06:04,150 --> 00:06:01,759

also to protect the entire team um

146

00:06:06,070 --> 00:06:04,160

because the trainers the people that are

147

00:06:07,909 --> 00:06:06,080

that are building uh the vehicles the

148

00:06:10,230 --> 00:06:07,919

people that uh are sitting in the

149

00:06:12,230 --> 00:06:10,240

control rooms all of that uh it just it

150

00:06:15,189 --> 00:06:12,240

has taken a special effort to to protect

151
00:06:17,510 --> 00:06:15,199
everybody and and so that has uh changed

152
00:06:19,749 --> 00:06:17,520
the training flow a little bit um it's

153
00:06:21,430 --> 00:06:19,759
put us i guess in in isolation a little

154
00:06:23,510 --> 00:06:21,440
bit it's actually from our families

155
00:06:25,510 --> 00:06:23,520
perspectives as well as you can imagine

156
00:06:28,070 --> 00:06:25,520
uh we've had the you know they've been a

157
00:06:30,150 --> 00:06:28,080
little bit more restrictive um

158
00:06:32,150 --> 00:06:30,160
on their activities as well over the

159
00:06:35,029 --> 00:06:32,160
past eight months uh just because of the

160
00:06:36,629 --> 00:06:35,039
situation that that we're in and so it's

161
00:06:38,230 --> 00:06:36,639
been difficult but at the same time i

162
00:06:41,909 --> 00:06:38,240
would say people have done an amazing

163
00:06:43,510 --> 00:06:41,919

job of getting this to to this point and

164

00:06:45,110 --> 00:06:43,520

and so i can't say enough about that as

165

00:06:47,110 --> 00:06:45,120

far as the weather you know we're

166

00:06:49,270 --> 00:06:47,120

looking at that very closely it has had

167

00:06:50,390 --> 00:06:49,280

some impacts on our preparations they've

168

00:06:51,909 --> 00:06:50,400

adjusted

169

00:06:53,990 --> 00:06:51,919

when we're going to roll the vehicle out

170

00:06:56,309 --> 00:06:54,000

and and do static fires and things of

171

00:06:58,230 --> 00:06:56,319

that nature but right now

172

00:07:02,790 --> 00:06:58,240

we're still on a plan to be ready to

173

00:07:09,189 --> 00:07:05,270

okay let's go to camden hall with

174

00:07:13,830 --> 00:07:11,510

and is really for anybody on the crew or

175

00:07:16,950 --> 00:07:13,840

suici anybody that has experience with

176

00:07:18,710 --> 00:07:16,960

the shuttle as described at t minus one

177

00:07:20,790 --> 00:07:18,720

minute they say it feels like the

178

00:07:22,629 --> 00:07:20,800

shuttle is coming uh you know alive

179

00:07:25,110 --> 00:07:22,639

beneath them do you feel like that same

180

00:07:26,950 --> 00:07:25,120

thing will occur with falcon 9 at that

181

00:07:29,270 --> 00:07:26,960

one minute mark or do you feel like

182

00:07:32,950 --> 00:07:29,280

it'll be much smoother up until that p0

183

00:07:37,430 --> 00:07:34,309

well i'll take the

184

00:07:39,830 --> 00:07:37,440

first question hello nashville

185

00:07:41,909 --> 00:07:39,840

uh will be uh very interesting i'm

186

00:07:44,710 --> 00:07:41,919

interested to to experience this the

187

00:07:47,110 --> 00:07:44,720

first dragon for all of us

188

00:07:49,189 --> 00:07:47,120

and what we hear from bob and doc on the

189

00:07:50,710 --> 00:07:49,199

demo one that they have a couple of a

190

00:07:53,510 --> 00:07:50,720

very distinct

191

00:07:55,670 --> 00:07:53,520

noise or sound as they do the feeling

192

00:07:58,309 --> 00:07:55,680

through the the final stage

193

00:08:01,430 --> 00:07:58,319

and so that's it's kind of a signs of

194

00:08:03,510 --> 00:08:01,440

that the rocket is filled up ready to go

195

00:08:07,749 --> 00:08:03,520

so i'm really anxious to to feel that

196

00:08:12,790 --> 00:08:10,230

all right let's go to gina clincy with

197

00:08:15,510 --> 00:08:12,800

abc news

198

00:08:17,430 --> 00:08:15,520

this is for commander hopkins uh how are

199

00:08:19,430 --> 00:08:17,440

the sleeping arrangements going to work

200

00:08:21,350 --> 00:08:19,440

on the space station please watch your

201
00:08:24,390 --> 00:08:21,360
short one sleeping pod

202
00:08:26,790 --> 00:08:24,400
with five of you up there

203
00:08:29,430 --> 00:08:26,800
so that's a that's a great question it's

204
00:08:32,630 --> 00:08:29,440
a great observation as well um yes we

205
00:08:35,190 --> 00:08:32,640
are currently short one crew quarters on

206
00:08:37,029 --> 00:08:35,200
board station i will say that the iss

207
00:08:38,230 --> 00:08:37,039
program is working on that and there are

208
00:08:41,350 --> 00:08:38,240
plans to

209
00:08:43,029 --> 00:08:41,360
to have a a temporary station

210
00:08:44,630 --> 00:08:43,039
that will be up there not sure when it's

211
00:08:46,230 --> 00:08:44,640
going to arrive it could arrive in

212
00:08:47,509 --> 00:08:46,240
admission or

213
00:08:50,389 --> 00:08:47,519

it may not get up there while we're

214

00:08:53,269 --> 00:08:50,399

still on board uh so in the interim uh

215

00:08:56,470 --> 00:08:53,279

they are exploring options that uh where

216

00:08:58,470 --> 00:08:56,480

where i can sleep uh including on the

217

00:09:00,550 --> 00:08:58,480

vehicle itself on resilience itself and

218

00:09:02,150 --> 00:09:00,560

so i think that's the at least the

219

00:09:03,910 --> 00:09:02,160

leading candidate for

220

00:09:05,990 --> 00:09:03,920

uh initially when we get on board but

221

00:09:07,190 --> 00:09:06,000

we'll continue to evaluate that

222

00:09:12,550 --> 00:09:07,200

throughout the mission and make sure

223

00:09:17,750 --> 00:09:16,070

okay now to dan bowen with fox 5 new

224

00:09:21,910 --> 00:09:17,760

york

225

00:09:23,750 --> 00:09:21,920

thank you so much two questions if it's

226

00:09:25,750 --> 00:09:23,760

okay the first question

227

00:09:27,430 --> 00:09:25,760

but when you all leave to when you come

228

00:09:30,230 --> 00:09:27,440

back the country could look very

229

00:09:31,509 --> 00:09:30,240

different uh with a vaccine potential

230

00:09:34,070 --> 00:09:31,519

and a new administration is that

231

00:09:36,470 --> 00:09:34,080

something you guys have to keep in mind

232

00:09:38,389 --> 00:09:36,480

or sort of compartmentalize

233

00:09:40,630 --> 00:09:38,399

the next question for victor victor we

234

00:09:42,630 --> 00:09:40,640

just had history with the first black

235

00:09:44,470 --> 00:09:42,640

woman elected as vice president you'll

236

00:09:46,070 --> 00:09:44,480

make history with this flight and uh

237

00:09:52,949 --> 00:09:46,080

that's something you can kind of put

238

00:09:56,710 --> 00:09:54,710

yes you know so the world is going to

239

00:09:58,150 --> 00:09:56,720

look different hopefully uh i would i

240

00:10:01,350 --> 00:09:58,160

would love to see and hey dan how you

241

00:10:03,269 --> 00:10:01,360

doing uh i i hope that it's mainly based

242

00:10:06,550 --> 00:10:03,279

on the fact that we have a vaccine and

243

00:10:07,829 --> 00:10:06,560

that people can go about uh you know

244

00:10:09,269 --> 00:10:07,839

taking care of the things they need to

245

00:10:11,670 --> 00:10:09,279

take care of in their in their normal

246

00:10:13,829 --> 00:10:11,680

lives uh safely so that's that's the

247

00:10:16,310 --> 00:10:13,839

biggest thing that i hope happens

248

00:10:19,269 --> 00:10:16,320

and you know i i think uh to put this in

249

00:10:21,110 --> 00:10:19,279

context it it is something to be

250

00:10:23,110 --> 00:10:21,120

celebrated once we accomplish it and you

251

00:10:24,870 --> 00:10:23,120

know i'm i am uh honored to be in this

252

00:10:26,710 --> 00:10:24,880

position and to be a part of this great

253

00:10:28,230 --> 00:10:26,720

and experienced crew and i look forward

254

00:10:30,389 --> 00:10:28,240

to getting up there and doing my best to

255

00:10:32,069 --> 00:10:30,399

make sure that uh you know we are worthy

256

00:10:35,110 --> 00:10:32,079

of all the work that's been put into to

257

00:10:36,630 --> 00:10:35,120

setting us up for this mission so uh but

258

00:10:39,190 --> 00:10:36,640

you know unlike the election you know

259

00:10:40,550 --> 00:10:39,200

that uh is in the past or at least is

260

00:10:42,069 --> 00:10:40,560

receding into the past where this

261

00:10:43,990 --> 00:10:42,079

mission is still ahead of me so let's

262

00:10:50,630 --> 00:10:44,000

get there and then uh i'll talk to you

263

00:10:56,630 --> 00:10:53,750

okay let's go to paul rivera with wesh 2

264

00:11:00,710 --> 00:10:58,550

to see you all this is to the group i

265

00:11:01,990 --> 00:11:00,720

was just curious about your reaction of

266

00:11:04,389 --> 00:11:02,000

the news of

267

00:11:06,870 --> 00:11:04,399

administrator jim brady stein steps down

268

00:11:08,870 --> 00:11:06,880

once the president-elect is sworn in do

269

00:11:11,670 --> 00:11:08,880

you also think that that's going to

270

00:11:16,470 --> 00:11:11,680

affect in any way future nasa astronauts

271

00:11:21,670 --> 00:11:19,030

uh well yeah that's a good question um i

272

00:11:23,430 --> 00:11:21,680

know it's it's customary for the

273

00:11:25,190 --> 00:11:23,440

administ uh people in the administration

274

00:11:27,110 --> 00:11:25,200

to submit their resignations and then we

275

00:11:30,150 --> 00:11:27,120

have to take it from there honestly i

276

00:11:31,670 --> 00:11:30,160

have no idea what will come after that i

277

00:11:34,150 --> 00:11:31,680

assuming that we will continue on with

278

00:11:36,069 --> 00:11:34,160

our artemis mission and just keep doing

279

00:11:43,030 --> 00:11:36,079

what we've been doing at nasa because

280

00:11:43,040 --> 00:11:48,230

okay let's go to mike brown with inverse

281

00:11:53,269 --> 00:11:51,190

hi guys um yeah thank you very much for

282

00:11:56,150 --> 00:11:53,279

taking the time to speak with um

283

00:11:58,069 --> 00:11:56,160

my question is uh this flight is uh

284

00:12:00,389 --> 00:11:58,079

several hours

285

00:12:04,629 --> 00:12:00,399

to the international space station

286

00:12:06,550 --> 00:12:04,639

and uh i'm curious what that's like to

287

00:12:08,310 --> 00:12:06,560

sort of be in that position for several

288

00:12:10,710 --> 00:12:08,320

hours i mean uh how do you stay

289

00:12:13,750 --> 00:12:10,720

comfortable uh how you go to the

290

00:12:16,550 --> 00:12:13,760

bathroom uh uh how do you eat uh what is

291

00:12:20,629 --> 00:12:16,560

it like sort of spending the day on this

292

00:12:24,069 --> 00:12:22,150

yeah so that's actually one of the

293

00:12:26,310 --> 00:12:24,079

interesting parts about uh this

294

00:12:27,430 --> 00:12:26,320

particular mission is you know when bob

295

00:12:28,949 --> 00:12:27,440

and doug launched they were only two

296

00:12:31,190 --> 00:12:28,959

people and and so we're gonna be

297

00:12:33,430 --> 00:12:31,200

figuring out uh some of that as we go

298

00:12:35,509 --> 00:12:33,440

because uh we'll be the first crew on it

299

00:12:38,389 --> 00:12:35,519

with uh four of us a full crew

300

00:12:40,389 --> 00:12:38,399

and and so right now the way the launch

301
00:12:42,150 --> 00:12:40,399
looks it's going to be a day one

302
00:12:43,750 --> 00:12:42,160
rendezvous so

303
00:12:45,910 --> 00:12:43,760
i think about a little over eight hours

304
00:12:47,829 --> 00:12:45,920
after we launch we should be docking to

305
00:12:49,670 --> 00:12:47,839
the international space station so

306
00:12:51,110 --> 00:12:49,680
there's not going to be a lot of time

307
00:12:53,030 --> 00:12:51,120
we're not anticipating that we're going

308
00:12:54,550 --> 00:12:53,040
to have to have a sleep period or

309
00:12:56,230 --> 00:12:54,560
anything of that nature

310
00:12:57,910 --> 00:12:56,240
and but at the same time if we were to

311
00:13:01,190 --> 00:12:57,920
slip to the next day

312
00:13:04,230 --> 00:13:01,200
it becomes more of a 24 25 i think even

313
00:13:05,910 --> 00:13:04,240

maybe 27 hour rendezvous so now

314

00:13:07,829 --> 00:13:05,920

that question becomes even more relevant

315

00:13:10,470 --> 00:13:07,839

because now we're spending uh quite a

316

00:13:12,150 --> 00:13:10,480

bit more time on board the vehicle so i

317

00:13:13,910 --> 00:13:12,160

think it really depends a little bit on

318

00:13:15,590 --> 00:13:13,920

uh the length of the mission shannon you

319

00:13:17,509 --> 00:13:15,600

want to i was just going to add even if

320

00:13:19,430 --> 00:13:17,519

we do have our short in rendezvous and

321

00:13:21,190 --> 00:13:19,440

get there in eight and a half hours i

322

00:13:22,790 --> 00:13:21,200

know as a crew we're going to evaluate

323

00:13:24,870 --> 00:13:22,800

the choreography that it takes to do

324

00:13:27,670 --> 00:13:24,880

things in that castle so we can

325

00:13:29,190 --> 00:13:27,680

inform future crews when they have four

326

00:13:34,230 --> 00:13:29,200

people and we'll probably have longer

327

00:13:40,870 --> 00:13:37,190

okay morgan mcfall johnson with business

328

00:13:45,509 --> 00:13:42,870

hi thanks so much for taking my question

329

00:13:47,350 --> 00:13:45,519

and this is for any and all of you um

330

00:13:49,110 --> 00:13:47,360

overall how are your nerves holding up

331

00:13:51,750 --> 00:13:49,120

ahead of being only the second group of

332

00:13:54,069 --> 00:13:51,760

people ever to fly on this new vehicle

333

00:13:55,509 --> 00:13:54,079

um and relatedly i'm also wondering what

334

00:13:58,150 --> 00:13:55,519

your thoughts are about this recent

335

00:13:59,670 --> 00:13:58,160

falcon 9 incident where masking lacquer

336

00:14:02,310 --> 00:13:59,680

clogged up a borehole in an engine

337

00:14:03,990 --> 00:14:02,320

release valve and led to a launch abort

338

00:14:05,990 --> 00:14:04,000

just wondering what your reaction was to

339

00:14:08,230 --> 00:14:06,000

learning about that and if you've had

340

00:14:10,790 --> 00:14:08,240

any conversations with spacex about it

341

00:14:12,790 --> 00:14:10,800

thanks so much

342

00:14:15,030 --> 00:14:12,800

i'll take the second part of that that

343

00:14:16,949 --> 00:14:15,040

question in terms of the issues that

344

00:14:19,590 --> 00:14:16,959

that occurred on the aborts of the

345

00:14:21,910 --> 00:14:19,600

launch uh basically you know i started

346

00:14:23,829 --> 00:14:21,920

in my uh when i had my opening remarks i

347

00:14:25,430 --> 00:14:23,839

talked about the number of people um

348

00:14:26,949 --> 00:14:25,440

that have been working on this mission

349

00:14:29,509 --> 00:14:26,959

and it truly is staggering when you look

350

00:14:30,470 --> 00:14:29,519

at those and and so all of those issues

351
00:14:32,310 --> 00:14:30,480
that you're

352
00:14:34,150 --> 00:14:32,320
referring to they've been looked at very

353
00:14:36,150 --> 00:14:34,160
closely they're still being looked at

354
00:14:38,870 --> 00:14:36,160
they're being reviewed and we have

355
00:14:41,670 --> 00:14:38,880
absolute faith and trust in the team

356
00:14:44,310 --> 00:14:41,680
that is doing that and so we know

357
00:14:46,949 --> 00:14:44,320
that when we walk to that launch pad on

358
00:14:49,590 --> 00:14:46,959
saturday that everybody has assured that

359
00:14:50,629 --> 00:14:49,600
that vehicle is is ready uh as far as

360
00:14:51,670 --> 00:14:50,639
the nerves

361
00:14:53,030 --> 00:14:51,680
um

362
00:14:55,189 --> 00:14:53,040
you know it's like it's like anything

363
00:14:57,750 --> 00:14:55,199

we're not quite there yet right and so

364

00:15:00,550 --> 00:14:57,760

sometimes if uh you know i had the

365

00:15:02,069 --> 00:15:00,560

football background and and so you know

366

00:15:04,870 --> 00:15:02,079

the nerves start to really pile on as

367

00:15:07,670 --> 00:15:04,880

you get closer to to launch and uh but

368

00:15:09,670 --> 00:15:07,680

at the same time we're having a a very

369

00:15:11,990 --> 00:15:09,680

good time here in crew quarters they're

370

00:15:13,670 --> 00:15:12,000

feeding us very well can't complain at

371

00:15:15,509 --> 00:15:13,680

all with that we're having a lot of good

372

00:15:17,670 --> 00:15:15,519

lasting at the same time

373

00:15:18,949 --> 00:15:17,680

we're going through a lot of our final

374

00:15:20,949 --> 00:15:18,959

preparations a lot of our final

375

00:15:22,470 --> 00:15:20,959

briefings final reviews uh things of

376

00:15:24,150 --> 00:15:22,480

that nature and that's all going well

377

00:15:25,670 --> 00:15:24,160

and so i think that helps keep the

378

00:15:27,269 --> 00:15:25,680

nerves down a little bit as well because

379

00:15:28,629 --> 00:15:27,279

you're just kind of going like clockwork

380

00:15:33,269 --> 00:15:28,639

through the the procedure in the

381

00:15:37,350 --> 00:15:35,110

okay marcia dunn with the associated

382

00:15:40,389 --> 00:15:37,360

press

383

00:15:42,790 --> 00:15:40,399

yes hi um hello again i'm wondering what

384

00:15:45,670 --> 00:15:42,800

is the most valuable piece of advice

385

00:15:46,870 --> 00:15:45,680

you've gotten from bob and or doug and

386

00:15:48,629 --> 00:15:46,880

do you know if they're going to be

387

00:15:53,269 --> 00:15:48,639

coming coming to watch your launch in

388

00:15:58,310 --> 00:15:55,990

yeah so i think from uh coming to launch

389

00:16:00,150 --> 00:15:58,320

watch the launch in person um much like

390

00:16:02,550 --> 00:16:00,160

for their launch the numbers are are

391

00:16:04,470 --> 00:16:02,560

very restricted right now um just

392

00:16:06,310 --> 00:16:04,480

because of the the situation with the

393

00:16:07,189 --> 00:16:06,320

pandemic so i do not believe either one

394

00:16:09,990 --> 00:16:07,199

of them

395

00:16:12,150 --> 00:16:10,000

are are going to be here uh we've we've

396

00:16:13,910 --> 00:16:12,160

had an opportunity to talk with them not

397

00:16:15,350 --> 00:16:13,920

only right after they got on orbit but

398

00:16:16,949 --> 00:16:15,360

then after they returned home and so we

399

00:16:18,389 --> 00:16:16,959

kind of got some advice

400

00:16:21,350 --> 00:16:18,399

through

401

00:16:23,430 --> 00:16:21,360

mission if you will and i'll let

402

00:16:25,030 --> 00:16:23,440

everybody kind of if they want to jump

403

00:16:26,550 --> 00:16:25,040

in with something they heard from them

404

00:16:28,949 --> 00:16:26,560

that that they thought was very helpful

405

00:16:30,790 --> 00:16:28,959

i think for me one of the uh the best

406

00:16:33,189 --> 00:16:30,800

piece of advice from from doug when we

407

00:16:34,949 --> 00:16:33,199

were talking about the landing piece uh

408

00:16:37,590 --> 00:16:34,959

he he talked about staying ahead of the

409

00:16:39,990 --> 00:16:37,600

vehicle and uh and that just means you

410

00:16:41,910 --> 00:16:40,000

know making sure you are are thinking

411

00:16:43,670 --> 00:16:41,920

ahead of the next step the next phase

412

00:16:45,110 --> 00:16:43,680

it's it's very similar to what we see

413

00:16:46,790 --> 00:16:45,120

when we're in the flying world when

414

00:16:48,949 --> 00:16:46,800

you're out there in our in the jets that

415

00:16:50,470 --> 00:16:48,959

we're flying around and and so i thought

416

00:16:51,910 --> 00:16:50,480

that was a good piece of advice that as

417

00:16:53,189 --> 00:16:51,920

we're getting ready to come into land

418

00:16:54,710 --> 00:16:53,199

things are going to start happening very

419

00:16:56,069 --> 00:16:54,720

fast and you just need to make sure

420

00:16:58,870 --> 00:16:56,079

you're staying ahead of the vehicle in

421

00:17:00,790 --> 00:16:58,880

each each phase as we went through that

422

00:17:02,949 --> 00:17:00,800

something that bob and doug mentioned to

423

00:17:04,390 --> 00:17:02,959

us as soichi said earlier is all the

424

00:17:06,150 --> 00:17:04,400

different sounds that we're going to

425

00:17:07,750 --> 00:17:06,160

have during the the tanking as well as

426

00:17:10,390 --> 00:17:07,760

during ascent

427

00:17:12,150 --> 00:17:10,400

uh on the way to orbital insertion and i

428

00:17:14,069 --> 00:17:12,160

would say that my personal favorite

429

00:17:16,470 --> 00:17:14,079

though was to think about with four of

430

00:17:18,789 --> 00:17:16,480

us uh how we were going to pack our food

431

00:17:20,630 --> 00:17:18,799

and so we actually rearranged our food

432

00:17:22,069 --> 00:17:20,640

to make sure that it it was easy to

433

00:17:23,590 --> 00:17:22,079

access and it also made sense

434

00:17:25,350 --> 00:17:23,600

considering that there are four of us

435

00:17:27,270 --> 00:17:25,360

yeah so yeah

436

00:17:29,990 --> 00:17:27,280

i would add along to that not just

437

00:17:32,070 --> 00:17:30,000

packing the food but dealing with things

438

00:17:34,710 --> 00:17:32,080

inside the capsule and how to do that

439

00:17:35,990 --> 00:17:34,720

efficiently so it doesn't eat your lunch

440

00:17:44,070 --> 00:17:36,000

while you're trying to accomplish other

441

00:17:49,990 --> 00:17:46,470

all right let's go to paul brinkman with

442

00:17:53,830 --> 00:17:51,830

okay um yeah i guess i'd just like to

443

00:17:55,990 --> 00:17:53,840

kind of follow on with the discussions

444

00:17:58,470 --> 00:17:56,000

about uh the capsule and uh thanks for

445

00:18:00,630 --> 00:17:58,480

taking my question um and

446

00:18:04,390 --> 00:18:00,640

shannon um the the four of you have been

447

00:18:08,230 --> 00:18:04,400

inside a dragon before um suited up and

448

00:18:09,990 --> 00:18:08,240

you also flew uh in a soyuz before um

449

00:18:11,909 --> 00:18:10,000

can you just kind of talk about what

450

00:18:13,669 --> 00:18:11,919

that was like to be in there um did it

451
00:18:16,549 --> 00:18:13,679
feel crowded at all it's probably

452
00:18:18,950 --> 00:18:16,559
clearly roomier than a soyuz but um

453
00:18:20,789 --> 00:18:18,960
and also do you think that uh

454
00:18:21,990 --> 00:18:20,799
seven people could ever fit inside the

455
00:18:25,029 --> 00:18:22,000
capsule because i know that's been

456
00:18:27,590 --> 00:18:25,039
discussed before thanks

457
00:18:29,909 --> 00:18:27,600
yeah it's interesting since um

458
00:18:32,230 --> 00:18:29,919
the soyuz where you normally see the

459
00:18:33,830 --> 00:18:32,240
crews sitting inside the soyuz is a

460
00:18:35,990 --> 00:18:33,840
pretty small space

461
00:18:38,549 --> 00:18:36,000
but above that you have a space where

462
00:18:41,110 --> 00:18:38,559
there's cargo so between the two

463
00:18:43,510 --> 00:18:41,120

spaces on a soyuz it's probably only

464

00:18:45,430 --> 00:18:43,520

slightly smaller than um

465

00:18:46,310 --> 00:18:45,440

the dragon capsule

466

00:18:47,350 --> 00:18:46,320

um

467

00:18:48,870 --> 00:18:47,360

although

468

00:18:53,110 --> 00:18:48,880

i think they have more cargo on the

469

00:18:55,190 --> 00:18:53,120

soyuz um staged about so with um

470

00:18:57,430 --> 00:18:55,200

four people i think it does feel more

471

00:18:59,669 --> 00:18:57,440

spacious because it's one volume instead

472

00:19:02,470 --> 00:18:59,679

of two volumes that you have to move

473

00:19:04,710 --> 00:19:02,480

about in i think seven people that may

474

00:19:06,150 --> 00:19:04,720

be a little that'll be sporty to see how

475

00:19:08,950 --> 00:19:06,160

you could handle seven people but you

476

00:19:11,029 --> 00:19:08,960

wouldn't have any cargo in there so um

477

00:19:13,510 --> 00:19:11,039

there'd be room for them but then again

478

00:19:15,190 --> 00:19:13,520

it's it's the uh choreography of

479

00:19:16,870 --> 00:19:15,200

managing all your stuff when you have to

480

00:19:19,029 --> 00:19:16,880

get out of your spacesuits and into your

481

00:19:21,350 --> 00:19:19,039

regular clothes where you're going to

482

00:19:23,669 --> 00:19:21,360

stage everything and and put away your

483

00:19:27,990 --> 00:19:23,679

spacesuits can be it is going to be

484

00:19:28,000 --> 00:19:36,230

okay robert perlman with collect space

485

00:19:39,270 --> 00:19:37,990

thank you for anyone on the crew who

486

00:19:41,669 --> 00:19:39,280

wants to take it i know that you're

487

00:19:43,909 --> 00:19:41,679

flying a new spacecraft but is there

488

00:19:47,029 --> 00:19:43,919

anything on board resilience that blew

489

00:19:49,110 --> 00:19:47,039

aboard demo2 crew transfer bags or any

490

00:19:53,270 --> 00:19:49,120

of your crew equipment are you reusing

491

00:19:56,150 --> 00:19:55,350

i as far as i know i think everything

492

00:20:01,110 --> 00:19:56,160

that

493

00:20:03,110 --> 00:20:01,120

um i guess there could be some common

494

00:20:05,669 --> 00:20:03,120

bags or things of that nature that maybe

495

00:20:07,510 --> 00:20:05,679

are are getting reused but uh it is is

496

00:20:09,110 --> 00:20:07,520

definitely new and i know i believe like

497

00:20:11,350 --> 00:20:09,120

with the soyuz they'll actually use

498

00:20:12,870 --> 00:20:11,360

pieces and parts out of uh ones that

499

00:20:14,870 --> 00:20:12,880

have already flown in in the next

500

00:20:17,029 --> 00:20:14,880

vehicle like control panels and things

501
00:20:23,029 --> 00:20:17,039
of that nature but in our case no i

502
00:20:28,630 --> 00:20:26,149
okay let's go to andrew haberneck with

503
00:20:30,310 --> 00:20:28,640
ky3

504
00:20:32,549 --> 00:20:30,320
uh hi yes thanks for taking my question

505
00:20:34,789 --> 00:20:32,559
uh this is for mike kind of a two uh

506
00:20:36,230 --> 00:20:34,799
two-part question um

507
00:20:38,710 --> 00:20:36,240
what is what does this partnership

508
00:20:40,789 --> 00:20:38,720
between spacex and nasa really kind of

509
00:20:43,750 --> 00:20:40,799
mean for the future of

510
00:20:46,630 --> 00:20:43,760
uh just space travel and just nasa's

511
00:20:48,230 --> 00:20:46,640
future and from for you for a personal

512
00:20:51,270 --> 00:20:48,240
standpoint i'm based here at the lake of

513
00:20:52,630 --> 00:20:51,280

the ozarks your hometown um uh small

514

00:20:54,950 --> 00:20:52,640

town missouri what

515

00:20:55,830 --> 00:20:54,960

what does this whole kind of um

516

00:20:58,230 --> 00:20:55,840

uh

517

00:20:59,990 --> 00:20:58,240

mission mean for you and mean for this

518

00:21:01,909 --> 00:21:00,000

area and the people that live here maybe

519

00:21:03,750 --> 00:21:01,919

the students that go to uh your alma

520

00:21:06,070 --> 00:21:03,760

mater

521

00:21:08,149 --> 00:21:06,080

yeah i'll start with the the second uh

522

00:21:10,070 --> 00:21:08,159

part of that and and i would say

523

00:21:11,830 --> 00:21:10,080

um you know for all of us in terms of

524

00:21:13,590 --> 00:21:11,840

our our alma maters and where we've come

525

00:21:15,430 --> 00:21:13,600

from i think it's

526

00:21:17,350 --> 00:21:15,440

it just tells you that anything is

527

00:21:19,510 --> 00:21:17,360

possible right i mean when i was growing

528

00:21:21,430 --> 00:21:19,520

up in uh at the lake there going to

529

00:21:23,510 --> 00:21:21,440

school of the osage i never would have

530

00:21:24,870 --> 00:21:23,520

thought that that someday i was going to

531

00:21:26,070 --> 00:21:24,880

be sitting here

532

00:21:27,830 --> 00:21:26,080

getting ready to launch to the

533

00:21:29,510 --> 00:21:27,840

international space station on a brand

534

00:21:32,149 --> 00:21:29,520

new vehicle

535

00:21:34,070 --> 00:21:32,159

and so it is it is kind of amazing but i

536

00:21:36,230 --> 00:21:34,080

think it's a good reminder that that

537

00:21:38,710 --> 00:21:36,240

anything is possible and if you're if

538

00:21:40,870 --> 00:21:38,720

you're willing to work hard and and uh

539

00:21:43,669 --> 00:21:40,880

keep after it um it starts with a big

540

00:21:47,110 --> 00:21:43,679

dream and and then you just keep going

541

00:21:50,149 --> 00:21:47,120

and and so i think if we can inspire um

542

00:21:52,470 --> 00:21:50,159

folks around there i i i hope that uh

543

00:21:53,990 --> 00:21:52,480

that maybe that does and and um

544

00:21:55,350 --> 00:21:54,000

and someone's falling in our footsteps

545

00:21:57,909 --> 00:21:55,360

and someday someone from lake of the

546

00:22:00,149 --> 00:21:57,919

ozarks is putting a foot on mars that

547

00:22:02,549 --> 00:22:00,159

would be pretty pretty amazing uh in

548

00:22:05,350 --> 00:22:02,559

terms of the relationship between spacex

549

00:22:07,990 --> 00:22:05,360

and nasa and what that means for futures

550

00:22:10,149 --> 00:22:08,000

uh space flight i i i think it's just

551

00:22:11,110 --> 00:22:10,159

it's it's part of this opening the door

552

00:22:12,710 --> 00:22:11,120

or

553

00:22:15,430 --> 00:22:12,720

particularly right now of low earth

554

00:22:17,430 --> 00:22:15,440

orbit to uh more and more human space

555

00:22:21,190 --> 00:22:17,440

flight you know so currently right now

556

00:22:22,950 --> 00:22:21,200

the the customer is nasa but uh in terms

557

00:22:25,190 --> 00:22:22,960

of uh other customers i know they're out

558

00:22:26,789 --> 00:22:25,200

there and in fact i believe spacex is

559

00:22:28,549 --> 00:22:26,799

looking at some other customers at this

560

00:22:30,789 --> 00:22:28,559

point and i'm sure

561

00:22:32,950 --> 00:22:30,799

boeing and other contractors that are

562

00:22:35,270 --> 00:22:32,960

out there are looking at it as well and

563

00:22:37,990 --> 00:22:35,280

so i think you're going to see

564

00:22:39,590 --> 00:22:38,000

as as this relationship grows i think

565

00:22:41,270 --> 00:22:39,600

it's a fantastic thing that we're going

566

00:22:43,430 --> 00:22:41,280

to have more and more people that are

567

00:22:45,909 --> 00:22:43,440

going to have access to to

568

00:22:47,510 --> 00:22:45,919

low earth orbit and not just

569

00:22:49,909 --> 00:22:47,520

astronauts that are coming from

570

00:22:51,029 --> 00:22:49,919

professional aid agencies like nasa like

571

00:22:52,470 --> 00:22:51,039

jaxa

572

00:22:56,149 --> 00:22:52,480

like we're sitting here in front of you

573

00:23:03,350 --> 00:22:58,230

okay let's go to amy thompson with

574

00:23:08,390 --> 00:23:05,750

hi there thanks for taking my question

575

00:23:11,990 --> 00:23:08,400

um i was wondering if you guys had

576

00:23:15,510 --> 00:23:12,000

picked out a zero g indicator and um

577

00:23:15,520 --> 00:23:19,510

yes and no yes

578

00:23:23,510 --> 00:23:21,830

yeah so there's uh you know that is one

579

00:23:26,149 --> 00:23:23,520

of the neat traditions uh human

580

00:23:28,310 --> 00:23:26,159

spaceflight is the zero g indicator and

581

00:23:29,190 --> 00:23:28,320

we are going to continue that tradition

582

00:23:31,029 --> 00:23:29,200

and

583

00:23:33,350 --> 00:23:31,039

um we're going to save the revealing

584

00:23:34,630 --> 00:23:33,360

until we're the second stage is cut off

585

00:23:39,430 --> 00:23:34,640

and hopefully it'll become pretty

586

00:23:39,440 --> 00:23:45,909

okay irene klopp with aviation week

587

00:23:49,750 --> 00:23:47,350

thanks

588

00:23:53,110 --> 00:23:49,760

i was wondering for

589

00:23:55,510 --> 00:23:53,120

maybe shannon and michael what

590

00:23:58,870 --> 00:23:55,520

changes as far as just

591

00:24:01,669 --> 00:23:58,880

lifestyle you're expecting and preparing

592

00:24:03,669 --> 00:24:01,679

for with having seven people living on

593

00:24:06,310 --> 00:24:03,679

the space station

594

00:24:08,630 --> 00:24:06,320

when when you all were there was smaller

595

00:24:10,710 --> 00:24:08,640

crews and sometimes much smaller

596

00:24:13,430 --> 00:24:10,720

and uh one quick follow-up for you mike

597

00:24:14,950 --> 00:24:13,440

is um on his question is it you

598

00:24:18,310 --> 00:24:14,960

personally that

599

00:24:21,029 --> 00:24:18,320

volunteered slash been drafted to uh

600

00:24:24,470 --> 00:24:21,039

have the temporary cabin in resilience

601
00:24:28,149 --> 00:24:25,990
shannon you want to start with

602
00:24:30,149 --> 00:24:28,159
life and then all life yeah um it's

603
00:24:31,350 --> 00:24:30,159
going to be interesting i think having

604
00:24:32,789 --> 00:24:31,360
um

605
00:24:34,470 --> 00:24:32,799
one of the big things we're going to

606
00:24:36,390 --> 00:24:34,480
have to be more mindful of is the

607
00:24:38,310 --> 00:24:36,400
scheduling of everything especially the

608
00:24:40,470 --> 00:24:38,320
exercise equipment because we all have

609
00:24:43,990 --> 00:24:40,480
to exercise every day it's usually

610
00:24:46,310 --> 00:24:44,000
important and so there's um much

611
00:24:47,990 --> 00:24:46,320
much tighter schedules uh associated

612
00:24:49,430 --> 00:24:48,000
with the exercise equipment um which

613
00:24:51,590 --> 00:24:49,440

will give us less flexibility in the

614

00:24:54,870 --> 00:24:51,600

rest of our day so you have to exercise

615

00:24:56,230 --> 00:24:54,880

when you have to exercise um i think um

616

00:24:58,710 --> 00:24:56,240

it might be a little more crowded around

617

00:25:03,110 --> 00:24:58,720

the dinner table but that's okay

618

00:25:06,950 --> 00:25:05,350

yeah and so actually uh there's a a

619

00:25:09,350 --> 00:25:06,960

position in mission control called

620

00:25:11,110 --> 00:25:09,360

called the ops planner and they're the

621

00:25:13,590 --> 00:25:11,120

person that's putting together our daily

622

00:25:14,950 --> 00:25:13,600

schedule and i think for those those

623

00:25:16,549 --> 00:25:14,960

folks it's going to get much more

624

00:25:18,390 --> 00:25:16,559

challenging because when we talk about

625

00:25:21,269 --> 00:25:18,400

not just exercise equipment but there's

626
00:25:22,710 --> 00:25:21,279
the the com the video loops all of those

627
00:25:24,630 --> 00:25:22,720
feeds you know like when we're doing

628
00:25:27,110 --> 00:25:24,640
experiments and things like that

629
00:25:28,630 --> 00:25:27,120
i there's a lot of the investigators

630
00:25:30,549 --> 00:25:28,640
want to be able to see what we're doing

631
00:25:31,990 --> 00:25:30,559
real time and now all of a sudden you

632
00:25:33,350 --> 00:25:32,000
could potentially have five different

633
00:25:35,909 --> 00:25:33,360
people working on five different

634
00:25:37,350 --> 00:25:35,919
experiments on the on the international

635
00:25:40,149 --> 00:25:37,360
space station and so do we have the

636
00:25:42,870 --> 00:25:40,159
resources that that enable that and so i

637
00:25:45,029 --> 00:25:42,880
think that is certainly going to uh to

638
00:25:46,789 --> 00:25:45,039

to bring some challenges with it uh in

639

00:25:48,950 --> 00:25:46,799

terms of the uh

640

00:25:50,630 --> 00:25:48,960

in terms of the me being in the and

641

00:25:52,390 --> 00:25:50,640

sleeping in dragon i don't necessarily

642

00:25:53,990 --> 00:25:52,400

look at it as drawing the short straw

643

00:25:56,870 --> 00:25:54,000

though we maybe did a little bit of rock

644

00:25:58,710 --> 00:25:56,880

paper scissors for that or gunman dragon

645

00:26:00,630 --> 00:25:58,720

man karate man

646

00:26:03,510 --> 00:26:00,640

um no actually though i think there's a

647

00:26:04,789 --> 00:26:03,520

tradition suici that uh often times in

648

00:26:07,110 --> 00:26:04,799

uh with the shuttle days i think the

649

00:26:08,630 --> 00:26:07,120

commanders usually just in the cockpit

650

00:26:10,390 --> 00:26:08,640

yeah the commander usually slept in the

651

00:26:12,549 --> 00:26:10,400

cockpit and so i think

652

00:26:14,630 --> 00:26:12,559

at least for me it just felt like that

653

00:26:15,909 --> 00:26:14,640

was that was where

654

00:26:17,909 --> 00:26:15,919

i needed to be

655

00:26:22,549 --> 00:26:17,919

if any of us were going to sleep there i

656

00:26:22,559 --> 00:26:27,110

okay nicholas samuel with vero news

657

00:26:32,549 --> 00:26:29,430

hi this is nicholas samuel here

658

00:26:34,710 --> 00:26:32,559

this question is for victor glover

659

00:26:37,029 --> 00:26:34,720

victor thanks for taking my question can

660

00:26:39,110 --> 00:26:37,039

you talk about the importance of stem

661

00:26:42,470 --> 00:26:39,120

programs and why the youth need to be

662

00:26:45,830 --> 00:26:42,480

engaged in stem activities

663

00:26:48,310 --> 00:26:45,840

oh that's a great question and um i i do

664

00:26:50,149 --> 00:26:48,320

feel that way i think the uh

665

00:26:52,630 --> 00:26:50,159

the importance of stem is you know in a

666

00:26:54,549 --> 00:26:52,640

in a nutshell you know it teaches you to

667

00:26:56,310 --> 00:26:54,559

look at the world and to to break things

668

00:26:58,230 --> 00:26:56,320

down into simple pieces that you can do

669

00:27:00,230 --> 00:26:58,240

something with and then take simple

670

00:27:01,909 --> 00:27:00,240

pieces and build them into solutions to

671

00:27:04,230 --> 00:27:01,919

to address the real world problems that

672

00:27:06,310 --> 00:27:04,240

are out there and so to to be able to

673

00:27:09,029 --> 00:27:06,320

critically think and communicate and

674

00:27:11,990 --> 00:27:09,039

then design things that improve life for

675

00:27:14,230 --> 00:27:12,000

all people and so it is a challenging

676

00:27:15,669 --> 00:27:14,240

educational path to walk

677

00:27:17,350 --> 00:27:15,679

but that shouldn't be a deterrent that

678

00:27:19,430 --> 00:27:17,360

should be the reason just like we go to

679

00:27:22,149 --> 00:27:19,440

the gym and we put weights on the bar

680

00:27:24,389 --> 00:27:22,159

it's making us stronger a stem education

681

00:27:25,750 --> 00:27:24,399

is a challenging climb but you know once

682

00:27:27,830 --> 00:27:25,760

you're at the top and you get to see

683

00:27:29,750 --> 00:27:27,840

that view uh you know that it was worth

684

00:27:31,430 --> 00:27:29,760

it so uh there's this thing in the

685

00:27:33,190 --> 00:27:31,440

aerospace industry called the gray wave

686

00:27:34,389 --> 00:27:33,200

where we're retiring more engineers than

687

00:27:37,029 --> 00:27:34,399

we're making

688

00:27:39,350 --> 00:27:37,039

and that is an impact on our country and

689

00:27:41,350 --> 00:27:39,360

the globe uh in terms of folks that have

690

00:27:42,789 --> 00:27:41,360

the the ability to work in the science

691

00:27:44,710 --> 00:27:42,799

and technology field and so it's

692

00:27:47,190 --> 00:27:44,720

important we need to make many more

693

00:27:48,870 --> 00:27:47,200

engineers and scientists and so i would

694

00:27:51,430 --> 00:27:48,880

love to go everywhere that i can and to

695

00:27:53,190 --> 00:27:51,440

encourage young people to to uh to study

696

00:27:55,029 --> 00:27:53,200

it as much as they can even if it's as a

697

00:27:56,630 --> 00:27:55,039

hobby or a minor it's it's very

698

00:28:00,389 --> 00:27:56,640

important to to the world to all of

699

00:28:03,110 --> 00:28:02,149

all right let's take a question from

700

00:28:04,950 --> 00:28:03,120

twitter

701
00:28:06,870 --> 00:28:04,960
how are you feeling leaving the planet

702
00:28:15,190 --> 00:28:06,880
and how do you expect the planet to

703
00:28:18,630 --> 00:28:17,190
well you know okay so

704
00:28:20,389 --> 00:28:18,640
i've got there are a lot of feelings

705
00:28:22,149 --> 00:28:20,399
swirling around right now you know i'm

706
00:28:24,310 --> 00:28:22,159
really focusing on keeping them inside

707
00:28:26,630 --> 00:28:24,320
because we've got a lot of things to do

708
00:28:27,590 --> 00:28:26,640
but i do think about it and the the

709
00:28:29,430 --> 00:28:27,600
biggest

710
00:28:32,149 --> 00:28:29,440
emotion or feeling or thought is that it

711
00:28:34,630 --> 00:28:32,159
just it's surreal i wake up and i go i

712
00:28:36,789 --> 00:28:34,640
really am at kennedy space center and we

713
00:28:39,990 --> 00:28:36,799

really are less than a week from launch

714

00:28:41,750 --> 00:28:40,000

i'm excited um i also am focused i have

715

00:28:43,750 --> 00:28:41,760

a job to do i have many jobs to do and i

716

00:28:45,750 --> 00:28:43,760

want to do them well so there's a lot of

717

00:28:47,190 --> 00:28:45,760

emotion and so i'm also focusing on

718

00:28:49,269 --> 00:28:47,200

trying to regulate those things and

719

00:28:51,430 --> 00:28:49,279

trying to keep them uh from from

720

00:28:53,190 --> 00:28:51,440

distracting me so that i can can do my

721

00:28:55,269 --> 00:28:53,200

job and get to the station and be

722

00:28:56,950 --> 00:28:55,279

productive but i'm really excited it's

723

00:28:58,470 --> 00:28:56,960

an honor and a privilege to be here

724

00:28:59,990 --> 00:28:58,480

there's a long legacy of people that

725

00:29:01,830 --> 00:29:00,000

have walked through these doors and and

726

00:29:04,710 --> 00:29:01,840

walked out of them and i'm just looking

727

00:29:06,630 --> 00:29:04,720

forward to being a part of that

728

00:29:08,470 --> 00:29:06,640

yeah and then um in terms of you know

729

00:29:11,269 --> 00:29:08,480

what are we expecting from a change when

730

00:29:14,149 --> 00:29:11,279

uh six months from now

731

00:29:16,149 --> 00:29:14,159

you know i think i think uh

732

00:29:18,710 --> 00:29:16,159

as victor alluded to earlier the

733

00:29:21,269 --> 00:29:18,720

pandemic if if uh the vaccine is out

734

00:29:23,110 --> 00:29:21,279

there and and that can allow people to

735

00:29:25,669 --> 00:29:23,120

uh to get out a little bit more and get

736

00:29:28,310 --> 00:29:25,679

back to i guess what we would consider

737

00:29:29,350 --> 00:29:28,320

normal a little bit more normal that

738

00:29:30,630 --> 00:29:29,360

that would be nice you know it's

739

00:29:33,110 --> 00:29:30,640

interesting uh

740

00:29:34,870 --> 00:29:33,120

uh chris cassidy right he launched right

741

00:29:37,110 --> 00:29:34,880

at the beginning of this and he's landed

742

00:29:39,510 --> 00:29:37,120

right at the at the end or it's it's

743

00:29:41,430 --> 00:29:39,520

still going on and so for him uh things

744

00:29:42,950 --> 00:29:41,440

didn't really change in that last six

745

00:29:46,389 --> 00:29:42,960

months so hopefully we'll have a

746

00:29:50,630 --> 00:29:48,549

all right thank you so much for taking

747

00:29:53,190 --> 00:29:50,640

questions today unfortunately that's all

748

00:29:55,430 --> 00:29:53,200

the time we have um i apologize if we

749

00:29:57,190 --> 00:29:55,440

didn't get to your question we wish crew

750

00:30:00,149 --> 00:29:57,200

won the best of luck we'll be cheering

751
00:30:02,070 --> 00:30:00,159
you on um for media the next event will

752
00:30:04,470 --> 00:30:02,080
be the flight readiness review media

753
00:30:07,110 --> 00:30:04,480
teleconference tomorrow stay tuned to

754
00:30:09,830 --> 00:30:07,120
nasa.gov for details be sure to watch

755
00:30:13,029 --> 00:30:09,840
this crew launch on saturday on nasa tv

756
00:30:15,669 --> 00:30:13,039
online at nasa.gov live or on facebook

757
00:30:18,789 --> 00:30:15,679
live on the nasa facebook page coverage

758
00:30:21,830 --> 00:30:18,799
starts on nasa tv at 3 30 pm eastern

759
00:30:22,950 --> 00:30:21,840
time thanks for joining

760
00:30:47,990 --> 00:30:22,960
everyone

761
00:30:48,000 --> 00:30:51,500
b