



1
00:00:09,990 --> 00:00:01,750
station this is houston are you ready

2
00:00:10,000 --> 00:00:14,390
we're ready for the event

3
00:00:18,310 --> 00:00:16,470
in fayette county public library this is

4
00:00:23,189 --> 00:00:18,320
mission control houston please call

5
00:00:28,390 --> 00:00:26,550
astronaut jack fisher this is eric

6
00:00:32,630 --> 00:00:28,400
maxwell from the fayette county georgia

7
00:00:34,229 --> 00:00:32,640
public library how do you hear me

8
00:00:44,150 --> 00:00:34,239
you hear me

9
00:00:49,350 --> 00:00:47,110
how's everybody doing today

10
00:00:50,630 --> 00:00:49,360
we are doing great and we are so excited

11
00:00:53,110 --> 00:00:50,640
to speak with you live from the

12
00:00:55,430 --> 00:00:53,120
international space center we have 20

13
00:01:08,070 --> 00:00:55,440

students who are eager to ask questions

14

00:01:16,789 --> 00:01:11,510

will you go to mars and how long will

15

00:01:20,630 --> 00:01:18,789

well buddy first off that's a great name

16

00:01:22,710 --> 00:01:20,640

that's actually the name of our vehicle

17

00:01:24,630 --> 00:01:22,720

that's going to take people to mars i

18

00:01:27,510 --> 00:01:24,640

think i'm going to be a little bit too

19

00:01:30,069 --> 00:01:27,520

old but the class that we just selected

20

00:01:31,429 --> 00:01:30,079

and you guys your generation are going

21

00:01:32,469 --> 00:01:31,439

to be the ones that are going to go to

22

00:01:34,870 --> 00:01:32,479

mars

23

00:01:37,510 --> 00:01:34,880

right now our engines are a little bit

24

00:01:40,870 --> 00:01:37,520

slow so it takes about six months to get

25

00:01:42,870 --> 00:01:40,880

there and then you'd stay there a year a

26

00:01:45,350 --> 00:01:42,880

little over a year and come back six

27

00:01:47,030 --> 00:01:45,360

months so it's two and a half to almost

28

00:01:47,910 --> 00:01:47,040

three years that you would be gone from

29

00:01:49,749 --> 00:01:47,920

home

30

00:01:51,590 --> 00:01:49,759

if we can develop a little bit faster

31

00:01:55,030 --> 00:01:51,600

engines we'll get there and back a lot

32

00:01:57,590 --> 00:01:55,040

quicker uh and more people can go so

33

00:01:59,990 --> 00:01:57,600

i'm excited to just help make all the

34

00:02:03,030 --> 00:02:00,000

infrastructure so that your generation

35

00:02:04,069 --> 00:02:03,040

can do the exploring

36

00:02:05,270 --> 00:02:04,079

pretty cool

37

00:02:06,389 --> 00:02:05,280

thank you

38

00:02:07,429 --> 00:02:06,399

okay

39

00:02:08,389 --> 00:02:07,439

next

40

00:02:13,430 --> 00:02:08,399

we have

41

00:02:20,830 --> 00:02:16,390

what cool things do you see in space

42

00:02:26,070 --> 00:02:24,229

earth oh my gosh it's almost everything

43

00:02:27,670 --> 00:02:26,080

you know when you look outside it's

44

00:02:31,509 --> 00:02:27,680

great because you get to see the earth

45

00:02:32,869 --> 00:02:31,519

it is so beautiful the stars peggy and i

46

00:02:35,270 --> 00:02:32,879

during a night pass the other day

47

00:02:37,270 --> 00:02:35,280

actually saw a galaxy with the naked eye

48

00:02:39,509 --> 00:02:37,280

so what you see is great and then how

49

00:02:40,869 --> 00:02:39,519

everything behaves i brought i brought

50

00:02:44,470 --> 00:02:40,879

something for you

51
00:02:47,990 --> 00:02:44,480
it even a slinky just an ordinary slinky

52
00:02:50,790 --> 00:02:48,000
it becomes almost alive in space

53
00:02:53,270 --> 00:02:50,800
it just the way everything behaves from

54
00:02:56,309 --> 00:02:53,280
your coffee to slinkies

55
00:02:58,550 --> 00:02:56,319
to everything is just plain

56
00:03:00,110 --> 00:02:58,560
cool

57
00:03:02,149 --> 00:03:00,120
[Applause]

58
00:03:05,030 --> 00:03:02,159
[Laughter]

59
00:03:12,070 --> 00:03:05,040
all right thank you next we have clara

60
00:03:15,830 --> 00:03:13,830
what are some of the most surprising

61
00:03:17,990 --> 00:03:15,840
personal adjustments did you or other

62
00:03:22,390 --> 00:03:18,000
astronauts face when beginning a stint

63
00:03:27,030 --> 00:03:25,270

well so you know since the blood doesn't

64

00:03:29,990 --> 00:03:27,040

want to stay in your feet anymore like

65

00:03:32,630 --> 00:03:30,000

normal you know pulling down by gravity

66

00:03:34,710 --> 00:03:32,640

then some people get congestion uh we

67

00:03:35,990 --> 00:03:34,720

can even have vision problems because

68

00:03:38,390 --> 00:03:36,000

there's so much blood in your head it

69

00:03:40,630 --> 00:03:38,400

kind of squishes the eyeball

70

00:03:42,149 --> 00:03:40,640

other people get uh you know an upset

71

00:03:44,789 --> 00:03:42,159

stomach or

72

00:03:46,949 --> 00:03:44,799

you know their head kind of spins i was

73

00:03:49,270 --> 00:03:46,959

lucky i didn't have any of those things

74

00:03:51,830 --> 00:03:49,280

but you also have to learn how to fly

75

00:03:54,470 --> 00:03:51,840

and you tend to run into things so i i

76
00:03:56,710 --> 00:03:54,480
have plenty of bumps uh from not doing

77
00:03:58,949 --> 00:03:56,720
so good at that at the start

78
00:04:01,270 --> 00:03:58,959
and you got to get used to losing things

79
00:04:02,869 --> 00:04:01,280
because they just float away if they're

80
00:04:04,710 --> 00:04:02,879
not strapped down

81
00:04:07,990 --> 00:04:04,720
so those are the biggest things that you

82
00:04:16,469 --> 00:04:10,789
great all right next on the mic we have

83
00:04:16,479 --> 00:04:22,150
would you like to go to the moon

84
00:04:27,510 --> 00:04:25,110
oh man would i that would be so cool i

85
00:04:29,270 --> 00:04:27,520
think that the apollo astronauts just

86
00:04:31,189 --> 00:04:29,280
scratched the surface

87
00:04:33,590 --> 00:04:31,199
with that program and i think there's so

88
00:04:35,590 --> 00:04:33,600

much more we could learn the moon's kind

89

00:04:37,510 --> 00:04:35,600

of like a time capsule for our solar

90

00:04:39,990 --> 00:04:37,520

system and we could learn so much and

91

00:04:41,990 --> 00:04:40,000

there's so many resources there and if

92

00:04:43,749 --> 00:04:42,000

we can go back then we can build up an

93

00:04:47,510 --> 00:04:43,759

infrastructure so that we can get to

94

00:04:52,469 --> 00:04:50,150

great thanks okay

95

00:04:54,830 --> 00:04:52,479

madeline martin

96

00:04:58,150 --> 00:04:54,840

come on

97

00:04:59,590 --> 00:04:58,160

down how long how long can you breathe

98

00:05:03,990 --> 00:04:59,600

in space with your

99

00:05:08,230 --> 00:05:06,070

that's a good question so when we go

100

00:05:10,710 --> 00:05:08,240

outside on a spacewalk we're in

101
00:05:12,390 --> 00:05:10,720
basically a little spaceship called an

102
00:05:15,270 --> 00:05:12,400
emu and

103
00:05:17,670 --> 00:05:15,280
inside that it has tanks that can last

104
00:05:20,310 --> 00:05:17,680
somewhere around seven hours

105
00:05:22,390 --> 00:05:20,320
maybe more maybe less it depends on how

106
00:05:24,629 --> 00:05:22,400
quick you're breathing

107
00:05:27,110 --> 00:05:24,639
and then we have a reserve tank just in

108
00:05:29,670 --> 00:05:27,120
case you punch a hole or something goes

109
00:05:34,950 --> 00:05:29,680
wrong with your main system uh that can

110
00:05:42,629 --> 00:05:36,310
great okay

111
00:05:42,639 --> 00:05:48,790
what do you eat is there a certain diet

112
00:05:52,629 --> 00:05:50,550
there isn't there probably should be

113
00:05:54,310 --> 00:05:52,639

because i probably am not eating the

114

00:05:57,029 --> 00:05:54,320

best stuff but

115

00:05:59,430 --> 00:05:57,039

i we we tend to

116

00:06:01,990 --> 00:05:59,440

try to avoid sodium because it's kind of

117

00:06:04,629 --> 00:06:02,000

bad for us and how we uh rehab when we

118

00:06:07,830 --> 00:06:04,639

get back on the ground and then we need

119

00:06:10,309 --> 00:06:07,840

to focus on vitamin d so we have to have

120

00:06:12,950 --> 00:06:10,319

that or we'll have a lot of bone loss

121

00:06:14,550 --> 00:06:12,960

but most of the food is pretty darn good

122

00:06:16,309 --> 00:06:14,560

and if it's not you can just squirt some

123

00:06:20,790 --> 00:06:16,319

hot sauce on it and then it's even

124

00:06:25,909 --> 00:06:23,830

thank you all right next we have nariah

125

00:06:27,670 --> 00:06:25,919

bradley

126

00:06:33,029 --> 00:06:27,680

have you seen a shooting star if you

127

00:06:37,749 --> 00:06:35,270

well if if we saw it up close it'd be

128

00:06:39,510 --> 00:06:37,759

kind of a bad day when we see it uh

129

00:06:41,510 --> 00:06:39,520

actually peggy and i saw one just the

130

00:06:43,830 --> 00:06:41,520

other day out of the cupola

131

00:06:45,670 --> 00:06:43,840

our big set of windows and it looked

132

00:06:48,629 --> 00:06:45,680

pretty much the same as it does on the

133

00:06:50,710 --> 00:06:48,639

ground so you see the big fiery trail it

134

00:06:53,589 --> 00:06:50,720

lights up and then it goes away

135

00:06:55,830 --> 00:06:53,599

um so it's pretty much the same if we

136

00:06:57,510 --> 00:06:55,840

were if we were close to it it'd be bad

137

00:06:59,029 --> 00:06:57,520

because all the little parts breaking

138

00:07:00,710 --> 00:06:59,039

off of it would probably

139

00:07:04,390 --> 00:07:00,720

punch holes in the space station and

140

00:07:08,309 --> 00:07:05,430

okay

141

00:07:13,830 --> 00:07:08,319

naomi fillmore

142

00:07:20,629 --> 00:07:17,589

it's totally weird so we have a sleeping

143

00:07:23,029 --> 00:07:20,639

bag that we strap to the wall

144

00:07:25,350 --> 00:07:23,039

so we're hanging up well it depends

145

00:07:27,749 --> 00:07:25,360

which crew quarters you're in you're in

146

00:07:29,270 --> 00:07:27,759

uh which direction but you basically

147

00:07:30,870 --> 00:07:29,280

strap yourself to the wall you get in

148

00:07:32,550 --> 00:07:30,880

the sleeping bag so you don't float

149

00:07:33,430 --> 00:07:32,560

around and bump into things during the

150

00:07:35,990 --> 00:07:33,440

night

151
00:07:38,070 --> 00:07:36,000
and some people even strap a pillow to

152
00:07:40,390 --> 00:07:38,080
their head just because they miss that

153
00:07:43,110 --> 00:07:40,400
feeling i don't seem to mind

154
00:07:46,790 --> 00:07:43,120
and as far as how comfortable it is it's

155
00:07:49,189 --> 00:07:46,800
like the best mattress you ever had it's

156
00:07:53,350 --> 00:07:49,199
it's like floating on air because you

157
00:07:59,189 --> 00:07:56,869
all right emily tom

158
00:08:01,270 --> 00:07:59,199
because water flows in space how do you

159
00:08:04,790 --> 00:08:01,280
wash up do you have a bathtub or a

160
00:08:08,309 --> 00:08:06,629
we don't have either one and

161
00:08:10,150 --> 00:08:08,319
and i was kind of worried when i came up

162
00:08:14,469 --> 00:08:10,160
here i was like i think i might get kind

163
00:08:16,790 --> 00:08:14,479

of nasty without a shower for that long

164

00:08:18,550 --> 00:08:16,800

but it's not so bad so they have these

165

00:08:21,670 --> 00:08:18,560

things in little

166

00:08:24,150 --> 00:08:21,680

kind of freeze-dried looking uh packets

167

00:08:26,230 --> 00:08:24,160

that we put water in and we put hot

168

00:08:28,550 --> 00:08:26,240

water in which is totally cool because

169

00:08:30,790 --> 00:08:28,560

it's like having a hot shower and then

170

00:08:33,190 --> 00:08:30,800

these towels when you unfold them see

171

00:08:35,750 --> 00:08:33,200

how they're extra long so that's so you

172

00:08:36,630 --> 00:08:35,760

can go behind your back and and get your

173

00:08:37,909 --> 00:08:36,640

back

174

00:08:40,389 --> 00:08:37,919

rub all

175

00:08:44,389 --> 00:08:40,399

pretty much you take a sponge bath with

176

00:08:46,710 --> 00:08:44,399

a super towel and it's warm and it has a

177

00:08:47,910 --> 00:08:46,720

little soap already in the towel so you

178

00:08:50,070 --> 00:08:47,920

get clean

179

00:08:55,030 --> 00:08:50,080

and it's it's pretty good

180

00:08:59,829 --> 00:08:57,829

thank you okay brianna white

181

00:09:04,949 --> 00:08:59,839

um how long did you have to stay in

182

00:09:09,750 --> 00:09:07,430

well i think i still am in school i

183

00:09:10,710 --> 00:09:09,760

pretty much you never stop learning

184

00:09:13,030 --> 00:09:10,720

um

185

00:09:15,670 --> 00:09:13,040

i most of the astronauts have advanced

186

00:09:17,829 --> 00:09:15,680

degrees so they did high school and

187

00:09:19,190 --> 00:09:17,839

college and then did some more

188

00:09:21,110 --> 00:09:19,200

um but

189

00:09:23,829 --> 00:09:21,120

if if you want to be an astronaut you

190

00:09:27,030 --> 00:09:23,839

really just you need to find what you

191

00:09:29,430 --> 00:09:27,040

truly love and work really hard at it

192

00:09:32,710 --> 00:09:29,440

and you have to open your mind to

193

00:09:35,269 --> 00:09:32,720

continually learn and get better

194

00:09:39,829 --> 00:09:35,279

i've never stopped doing that and i i

195

00:09:46,230 --> 00:09:43,990

thank you next we have emily athy

196

00:09:48,070 --> 00:09:46,240

do the astronauts ever get sick since

197

00:09:51,910 --> 00:09:48,080

they shouldn't be exposed to germs up

198

00:09:57,509 --> 00:09:54,630

that's a great question it's pretty darn

199

00:09:59,670 --> 00:09:57,519

rare um because there shouldn't be germs

200

00:10:02,470 --> 00:09:59,680

up here every now and again there's been

201
00:10:04,470 --> 00:10:02,480
people who uh

202
00:10:06,470 --> 00:10:04,480
broke what we call quarantine where we

203
00:10:09,750 --> 00:10:06,480
kind of keep the crew isolated right

204
00:10:12,310 --> 00:10:09,760
before launch or someone had it had a

205
00:10:14,550 --> 00:10:12,320
cold or something and they were inside

206
00:10:16,949 --> 00:10:14,560
among the people during quarantine and

207
00:10:19,590 --> 00:10:16,959
then that came up to the station but for

208
00:10:21,430 --> 00:10:19,600
the most part it's very rare um we keep

209
00:10:23,750 --> 00:10:21,440
pretty darn healthy we can't really take

210
00:10:25,509 --> 00:10:23,760
six sick days so

211
00:10:28,630 --> 00:10:25,519
uh we gotta keep healthy and and

212
00:10:39,110 --> 00:10:33,190
thank you okay this is abigail smith

213
00:10:44,470 --> 00:10:41,430

well so astronauts generally there are

214

00:10:46,630 --> 00:10:44,480

four big things we we're training for

215

00:10:48,710 --> 00:10:46,640

the next mission you know building that

216

00:10:50,870 --> 00:10:48,720

experience base to make sure we have the

217

00:10:52,790 --> 00:10:50,880

skills uh we're working on the next

218

00:10:54,870 --> 00:10:52,800

generation of vehicles

219

00:10:56,710 --> 00:10:54,880

uh we're helping with the operations

220

00:10:58,790 --> 00:10:56,720

like working as a

221

00:11:01,590 --> 00:10:58,800

capcom the person in mission control who

222

00:11:04,069 --> 00:11:01,600

talks to the astronauts or just going to

223

00:11:06,630 --> 00:11:04,079

meetings to support those operations and

224

00:11:09,269 --> 00:11:06,640

then my favorite is going and talking to

225

00:11:10,710 --> 00:11:09,279

the public and to students to inform

226

00:11:14,550 --> 00:11:10,720

them about what we're doing and to

227

00:11:19,350 --> 00:11:17,350

all right and joshua smith

228

00:11:25,110 --> 00:11:19,360

what is one thing you were not prepared

229

00:11:30,230 --> 00:11:28,389

man josh it's i it

230

00:11:32,550 --> 00:11:30,240

the one thing i wasn't prepared for is

231

00:11:35,910 --> 00:11:32,560

how much darn fun it is

232

00:11:38,470 --> 00:11:35,920

because you're just flying all the time

233

00:11:40,550 --> 00:11:38,480

all the work is so fun it's like being

234

00:11:44,470 --> 00:11:40,560

12 again just like you

235

00:11:46,630 --> 00:11:44,480

and i i wasn't expecting that uh i think

236

00:11:49,990 --> 00:11:46,640

pretty much everything i'm doing on the

237

00:11:51,670 --> 00:11:50,000

station is exciting it's interesting

238

00:11:53,590 --> 00:11:51,680

especially the science because you

239

00:11:54,550 --> 00:11:53,600

really feel like you're you're making a

240

00:11:55,350 --> 00:11:54,560

difference

241

00:12:00,870 --> 00:11:55,360

and

242

00:12:09,269 --> 00:12:03,670

next we have sage martin

243

00:12:13,990 --> 00:12:12,150

well so up here i'm i'm reading a little

244

00:12:16,550 --> 00:12:14,000

book that one of the astronauts put

245

00:12:18,230 --> 00:12:16,560

together don pettit on how to take

246

00:12:20,870 --> 00:12:18,240

pictures in space

247

00:12:22,470 --> 00:12:20,880

uh so i can get better at taking

248

00:12:23,910 --> 00:12:22,480

pictures in space

249

00:12:26,870 --> 00:12:23,920

other than that i just read the

250

00:12:29,910 --> 00:12:26,880

procedures and the materials for my next

251
00:12:31,590 --> 00:12:29,920
for the next day or the the week of what

252
00:12:32,949 --> 00:12:31,600
i'm going to be doing and you know

253
00:12:35,269 --> 00:12:32,959
there's a lot of stuff that we need to

254
00:12:37,509 --> 00:12:35,279
look at and keep up with

255
00:12:39,110 --> 00:12:37,519
as far as reading a book i think i'll do

256
00:12:41,350 --> 00:12:39,120
that when i get home and i don't have

257
00:12:44,550 --> 00:12:41,360
such a great view to look out the window

258
00:12:50,629 --> 00:12:48,069
next we have izan chiranya

259
00:12:55,590 --> 00:12:50,639
what are your three favorite things to

260
00:12:59,829 --> 00:12:57,190
good question

261
00:13:03,430 --> 00:12:59,839
i love eating my food because i get to

262
00:13:04,470 --> 00:13:03,440
play with it and it floats and there's

263
00:13:06,710 --> 00:13:04,480

little

264

00:13:08,550 --> 00:13:06,720

orbs and it's just wonderful

265

00:13:09,670 --> 00:13:08,560

i love looking out the window and taking

266

00:13:11,590 --> 00:13:09,680

pictures

267

00:13:13,430 --> 00:13:11,600

and i love

268

00:13:16,790 --> 00:13:13,440

doing the science on the space station

269

00:13:18,629 --> 00:13:16,800

because every single day i feel

270

00:13:21,670 --> 00:13:18,639

so good that

271

00:13:24,550 --> 00:13:21,680

we are one small part in this huge team

272

00:13:28,150 --> 00:13:24,560

trying to discover new things and i love

273

00:13:33,430 --> 00:13:30,790

next we have maria barduo

274

00:13:38,710 --> 00:13:33,440

what people in space vehicles have you

275

00:13:43,110 --> 00:13:40,310

well that's a pretty short answer

276

00:13:46,550 --> 00:13:43,120

because this is my first flight to space

277

00:13:48,389 --> 00:13:46,560

i flew up on a soyuz

278

00:13:50,150 --> 00:13:48,399

rocket and a soyuz vehicle

279

00:13:51,269 --> 00:13:50,160

with my friend and commander fyodor

280

00:13:53,189 --> 00:13:51,279

yurchikhin

281

00:13:54,710 --> 00:13:53,199

and then we're getting lucky because we

282

00:13:57,030 --> 00:13:54,720

get to fly home

283

00:13:59,910 --> 00:13:57,040

with another friend peggy whitson who's

284

00:14:03,030 --> 00:13:59,920

been up here for a quite a long time

285

00:14:09,269 --> 00:14:03,040

she's actually been in space longer than

286

00:14:09,279 --> 00:14:13,389

next we have arse salim

287

00:14:19,030 --> 00:14:15,829

communication between earth and the

288

00:14:20,069 --> 00:14:19,040

space station only has a few seconds of

289

00:14:23,430 --> 00:14:20,079

delay

290

00:14:28,870 --> 00:14:23,440

how will communication systems change as

291

00:14:34,230 --> 00:14:31,590

well so communication we can't go any

292

00:14:37,110 --> 00:14:34,240

faster than the speed of light so as we

293

00:14:39,350 --> 00:14:37,120

go further and further like to mars

294

00:14:41,670 --> 00:14:39,360

we're going to have big delays on the

295

00:14:43,350 --> 00:14:41,680

order of minutes and so

296

00:14:45,350 --> 00:14:43,360

you're not going to have the instant

297

00:14:46,470 --> 00:14:45,360

communication kind of like we're having

298

00:14:49,269 --> 00:14:46,480

now or

299

00:14:51,990 --> 00:14:49,279

texting or tweeting or whatever

300

00:14:54,790 --> 00:14:52,000

we're going to have to be

301
00:14:56,790 --> 00:14:54,800
more more uh more forethought in our

302
00:14:58,629 --> 00:14:56,800
communication we'll have to prepare

303
00:15:00,870 --> 00:14:58,639
things and then the crew is just going

304
00:15:04,790 --> 00:15:00,880
to have to be more autonomous in

305
00:15:09,990 --> 00:15:04,800
handling problems and and doing the

306
00:15:13,829 --> 00:15:12,230
okay next on the mic we have cameron

307
00:15:17,269 --> 00:15:13,839
watson

308
00:15:26,069 --> 00:15:17,279
what kind of weather do you see

309
00:15:30,790 --> 00:15:29,030
kind of i'm sorry i missed that one

310
00:15:35,189 --> 00:15:30,800
she asked what kind of weather do you

311
00:15:40,069 --> 00:15:37,749
i'm sorry i have old pilot ears they

312
00:15:42,790 --> 00:15:40,079
don't work so good we see everything we

313
00:15:46,230 --> 00:15:42,800

see thunderstorms we see sunny skies

314

00:15:48,150 --> 00:15:46,240

hurricanes we see it all in fact i think

315

00:15:50,230 --> 00:15:48,160

lightning is one of the coolest things

316

00:15:52,150 --> 00:15:50,240

when you see a thunderstorm because

317

00:15:57,990 --> 00:15:52,160

you see it going between clouds and

318

00:16:07,990 --> 00:16:01,350

and now we have david bradley

319

00:16:12,870 --> 00:16:10,230

well buddy the the theory is that as you

320

00:16:15,189 --> 00:16:12,880

get going as fast as the speed of light

321

00:16:16,949 --> 00:16:15,199

then time would slow down but we aren't

322

00:16:20,710 --> 00:16:16,959

anywhere near that we're going pretty

323

00:16:23,269 --> 00:16:20,720

fast 17 500 miles an hour but nowhere

324

00:16:27,670 --> 00:16:23,279

near the speed of light so we're just

325

00:16:31,749 --> 00:16:29,189

and i'm going to ask a question on

326

00:16:34,230 --> 00:16:31,759

behalf of emerson drake

327

00:16:36,710 --> 00:16:34,240

what method of oxygen creation do you

328

00:16:41,110 --> 00:16:36,720

use how much water is needed and how

329

00:16:44,710 --> 00:16:41,990

boy

330

00:16:47,670 --> 00:16:44,720

i know well we use both our

331

00:16:49,749 --> 00:16:47,680

oxygen generation systems are

332

00:16:51,990 --> 00:16:49,759

used electrolysis so we use electric

333

00:16:55,189 --> 00:16:52,000

current to separate water into hydrogen

334

00:16:57,590 --> 00:16:55,199

and oxygen as far as the amounts we need

335

00:17:00,069 --> 00:16:57,600

and and how much it produces i'm not

336

00:17:01,749 --> 00:17:00,079

sure i know that it produces enough

337

00:17:04,390 --> 00:17:01,759

because i'm still breathing

338

00:17:07,750 --> 00:17:04,400

but i'm not positive on exact numbers

339

00:17:12,150 --> 00:17:10,630

well great i know that i personally as

340

00:17:14,470 --> 00:17:12,160

far as everyone here wants to thank you

341

00:17:16,150 --> 00:17:14,480

so much for sharing your time with us

342

00:17:20,150 --> 00:17:16,160

and for inspiring our students to get

343

00:17:22,710 --> 00:17:21,429

you know it's been really exciting i

344

00:17:28,549 --> 00:17:22,720

think we're all really excited to be

345

00:17:28,559 --> 00:17:31,430

hello jack

346

00:17:35,990 --> 00:17:33,990

he has flipped out

347

00:17:38,390 --> 00:17:36,000

whoa

348

00:17:40,230 --> 00:17:38,400

good job

349

00:17:42,630 --> 00:17:40,240

we're very excited

350

00:17:45,350 --> 00:17:42,640

that you're here jack

351
00:17:46,390 --> 00:17:45,360
we were expecting uh two three or four

352
00:17:49,590 --> 00:17:46,400
hundred

353
00:17:51,510 --> 00:17:49,600
and i think we made that expectation

354
00:17:52,950 --> 00:17:51,520
we thank you so very much for being

355
00:17:55,110 --> 00:17:52,960
present here

356
00:17:57,270 --> 00:17:55,120
at fayette county the fed county public

357
00:18:00,230 --> 00:17:57,280
library and yes we are the best in the

358
00:18:02,310 --> 00:18:00,240
universe we want to thank all our vips

359
00:18:05,029 --> 00:18:02,320
their names have already been called we

360
00:18:07,510 --> 00:18:05,039
all thank niagara water we so appreciate

361
00:18:08,950 --> 00:18:07,520
everything outside jack we'll be eating

362
00:18:11,590 --> 00:18:08,960
hot dogs

363
00:18:13,830 --> 00:18:11,600

uh what if we have popcorn and a lot of

364

00:18:17,350 --> 00:18:13,840

other great things next door we have the

365

00:18:19,909 --> 00:18:17,360

firm bay again thank you so very much

366

00:18:22,710 --> 00:18:19,919

and let me give you and i want you to

367

00:18:24,870 --> 00:18:22,720

give a huge shout out for our i.t

368

00:18:28,630 --> 00:18:24,880

department who put all of this together

369

00:18:32,630 --> 00:18:30,789

well absolutely congratulations to

370

00:18:34,870 --> 00:18:32,640

everybody and thanks for letting me be a

371

00:18:39,270 --> 00:18:34,880

part of this event and man i wish i

372

00:18:43,350 --> 00:18:40,950

well again thank you if you want to hear