



1
00:00:08,450 --> 00:00:03,710
station this is Houston are you ready

2
00:00:12,440 --> 00:00:08,460
for the event Houston station we are

3
00:00:15,350 --> 00:00:12,450
ready for the event destination station

4
00:00:18,380 --> 00:00:15,360
at the Children's Museum in Indianapolis

5
00:00:29,269 --> 00:00:18,390
this is Mission Control Houston please

6
00:00:32,540 --> 00:00:29,279
call station for a voice check ifs this

7
00:00:34,760 --> 00:00:32,550
is destination station at the Children's

8
00:00:38,920 --> 00:00:34,770
Museum of Indianapolis this is Dave

9
00:00:42,950 --> 00:00:41,660
children's museum in Indianapolis we

10
00:00:48,860 --> 00:00:42,960
have you loud and clear we are doing

11
00:00:54,860 --> 00:00:48,870
great they're nice to see you hi Rick

12
00:00:56,600 --> 00:00:54,870
and co e cheese and Steve it's great to

13
00:00:58,910 --> 00:00:56,610

see you too up there in fact I've

14

00:01:02,090 --> 00:00:58,920

watched your spacewalk last week you did

15

00:01:04,549 --> 00:01:02,100

a great job plan a looks like it works

16

00:01:06,590 --> 00:01:04,559

pretty good we're going to get right to

17

00:01:08,780 --> 00:01:06,600

some of these questions we have a really

18

00:01:11,210 --> 00:01:08,790

large crowd here at the Children's

19

00:01:16,330 --> 00:01:11,220

Museum of Indianapolis and our first

20

00:01:19,280 --> 00:01:16,340

student Georgia has a question for you

21

00:01:25,880 --> 00:01:19,290

what is your favorite part of being an

22

00:01:28,190 --> 00:01:25,890

astronaut on the ISS good question it's

23

00:01:31,039 --> 00:01:28,200

wonderful to be able to work in space

24

00:01:32,990 --> 00:01:31,049

and what's the beautiful home planet and

25

00:01:35,210 --> 00:01:33,000

my favorite part of being an astronaut

26

00:01:37,730 --> 00:01:35,220

is that we can work with so many

27

00:01:50,490 --> 00:01:37,740

dedicated people from all over the world

28

00:01:56,500 --> 00:01:53,710

Rick this next questions for you and we

29

00:01:59,590 --> 00:01:56,510

have Oliver from Indianapolis Public

30

00:02:03,520 --> 00:01:59,600

School 62 ask the next question here you

31

00:02:08,279 --> 00:02:03,530

go Oliver how do you tell the time and

32

00:02:12,370 --> 00:02:10,870

hey Oliver yeah great question because

33

00:02:14,590 --> 00:02:12,380

up here you know we're going around the

34

00:02:17,229 --> 00:02:14,600

earth so fast that we have a sunrise and

35

00:02:19,360 --> 00:02:17,239

a sunset every hour and a half so we

36

00:02:21,310 --> 00:02:19,370

can't use the Sun to determine what time

37

00:02:22,870 --> 00:02:21,320

it is obviously so we use a greenwich

38

00:02:24,880 --> 00:02:22,880

mean time we're basically the time that

39

00:02:27,009 --> 00:02:24,890

it is in London England and that's kind

40

00:02:28,780 --> 00:02:27,019

of a compromise because we have people

41

00:02:30,250 --> 00:02:28,790

from all over the world working with the

42

00:02:33,520 --> 00:02:30,260

international space station so we all

43

00:02:34,990 --> 00:02:33,530

decided to use London time or gmt as the

44

00:02:37,210 --> 00:02:35,000

standard up here and of course we use

45

00:02:38,470 --> 00:02:37,220

our watch and then at night when it's

46

00:02:40,150 --> 00:02:38,480

time to go to bed we turn all the lights

47

00:02:41,560 --> 00:02:40,160

off and it's like night time up here in

48

00:02:48,800 --> 00:02:41,570

the daytime we have all the lights on in

49

00:03:02,550 --> 00:02:52,200

thanks a lot Rick swanee this next one's

50

00:03:09,260 --> 00:03:02,560

for you and we have Brenda Ramon had two

51
00:03:14,250 --> 00:03:11,910
how do we get water we need in space

52
00:03:16,620 --> 00:03:14,260
well we luckily have a system here that

53
00:03:18,750 --> 00:03:16,630
recycles our water and then for us to

54
00:03:20,640 --> 00:03:18,760
get it out it's pretty easy simple we

55
00:03:22,050 --> 00:03:20,650
just go ahead and have a little machine

56
00:03:23,790 --> 00:03:22,060
we can go ahead and take water out from

57
00:03:29,720 --> 00:03:23,800
there and put it in a bag which we can

58
00:03:36,540 --> 00:03:33,090
thanks a lot swanny quechee the next

59
00:03:43,620 --> 00:03:36,550
one's for you images from Abe buescher

60
00:03:50,910 --> 00:03:43,630
at st. Michael's School what experiments

61
00:03:53,220 --> 00:03:50,920
are you working on aboard the ISS hey

62
00:03:54,930 --> 00:03:53,230
that's an interesting question we are

63
00:03:58,170 --> 00:03:54,940

working on a variety of experiments

64

00:04:00,240 --> 00:03:58,180

every day and in the physics and

65

00:04:02,550 --> 00:04:00,250

medicine and all kinds of science and

66

00:04:04,860 --> 00:04:02,560

this week in particular I am focusing

67

00:04:06,960 --> 00:04:04,870

and working on the experiment called the

68

00:04:10,440 --> 00:04:06,970

cell McConnell sensing which is an

69

00:04:13,380 --> 00:04:10,450

investigation to identify gravity sensor

70

00:04:15,420 --> 00:04:13,390

in a muscle cells and this study will

71

00:04:22,840 --> 00:04:15,430

help develop a new medicine or

72

00:04:29,170 --> 00:04:26,890

Thanks quechee and now Rick the next one

73

00:04:34,510 --> 00:04:29,180

from Aaron Howard chapel hill christian

74

00:04:40,780 --> 00:04:34,520

school here Aaron how and why did you

75

00:04:43,120 --> 00:04:40,790

choose to go into space well you know

76

00:04:44,830 --> 00:04:43,130

when I was very young probably about

77

00:04:47,770 --> 00:04:44,840

your age I was I've got very interested

78

00:04:49,810 --> 00:04:47,780

in science very interested in airplanes

79

00:04:52,000 --> 00:04:49,820

and space travel was back in the days of

80

00:04:54,400 --> 00:04:52,010

Apollo and so it really piqued my

81

00:04:56,680 --> 00:04:54,410

interest and I was I was very good at

82

00:04:58,780 --> 00:04:56,690

math and so I decided to make science

83

00:05:01,120 --> 00:04:58,790

and engineering my career and then

84

00:05:02,740 --> 00:05:01,130

eventually I saw that there was an

85

00:05:03,880 --> 00:05:02,750

opportunity to become an astronaut and I

86

00:05:05,560 --> 00:05:03,890

thought it would be great to become an

87

00:05:07,750 --> 00:05:05,570

astronaut it was physically and mentally

88

00:05:09,820 --> 00:05:07,760

very challenging and that all led up to

89

00:05:11,890 --> 00:05:09,830

my space trip so it's just a series of

90

00:05:18,380 --> 00:05:11,900

events and leading me down a road of

91

00:05:24,080 --> 00:05:21,590

thanks a lot Rick swanee you next one is

92

00:05:30,830 --> 00:05:24,090

from Isabelle Hargrove sycamore school

93

00:05:33,440 --> 00:05:30,840

in Indianapolis do you have any free

94

00:05:39,890 --> 00:05:33,450

time while on the ISS and if so what do

95

00:05:42,320 --> 00:05:39,900

you do Isabel we do get a little bit of

96

00:05:44,120 --> 00:05:42,330

free time up here and one of my favorite

97

00:05:46,610 --> 00:05:44,130

things to do is look out the window we

98

00:05:48,710 --> 00:05:46,620

have a wonderful place called the cupola

99

00:05:50,360 --> 00:05:48,720

which is like a glass-bottom boat and

100

00:05:52,310 --> 00:05:50,370

has seven windows that look out on the

101
00:06:00,410 --> 00:05:52,320
earth and said beautiful places to sit

102
00:06:08,450 --> 00:06:03,500
Thanks sewanee quechee our next

103
00:06:11,090 --> 00:06:08,460
questions from Jonah Bolton Jonah you

104
00:06:15,470 --> 00:06:11,100
say thank you very much here you go

105
00:06:17,720 --> 00:06:15,480
Jonah how many personal items do you

106
00:06:26,920 --> 00:06:17,730
bring to space and what types of items

107
00:06:30,950 --> 00:06:26,930
do you bring Jonah I brought some

108
00:06:34,280 --> 00:06:30,960
personal items like photographs of my

109
00:06:37,610 --> 00:06:34,290
family and friends and also I brought

110
00:06:40,040 --> 00:06:37,620
some banners or flags of my school and

111
00:06:42,500 --> 00:06:40,050
universities that I attended the back in

112
00:06:45,280 --> 00:06:42,510
you know in Japan and then also some

113
00:06:47,720 --> 00:06:45,290

small charm says flight memento and

114

00:06:50,060 --> 00:06:47,730

photographs are really nice and that

115

00:06:52,850 --> 00:06:50,070

because I can see the pictures of my

116

00:06:59,530 --> 00:06:52,860

family and friends during this six-month

117

00:07:06,290 --> 00:07:02,570

thanks Chloe tree and now Rick from

118

00:07:11,360 --> 00:07:06,300

Austin halt hold Indianapolis Public

119

00:07:14,240 --> 00:07:11,370

School 15 here you go often how do you

120

00:07:20,510 --> 00:07:14,250

get those how big is the living area on

121

00:07:22,220 --> 00:07:20,520

the ISS and you get your own room yeah

122

00:07:25,550 --> 00:07:22,230

Austin a space station is actually very

123

00:07:27,410 --> 00:07:25,560

very large in my opinion anyways you

124

00:07:29,120 --> 00:07:27,420

probably maybe you've been on a large

125

00:07:30,740 --> 00:07:29,130

commercial airliner on a trip at one

126

00:07:32,300 --> 00:07:30,750

time or another it's probably the size

127

00:07:34,490 --> 00:07:32,310

of two or three of those commercial

128

00:07:35,990 --> 00:07:34,500

airliners the volume inside it and the

129

00:07:37,550 --> 00:07:36,000

thing about the space station is since

130

00:07:39,380 --> 00:07:37,560

we could float you know we could use the

131

00:07:41,210 --> 00:07:39,390

we could use the area up here on the

132

00:07:43,130 --> 00:07:41,220

ceiling if we have to so it's much more

133

00:07:45,620 --> 00:07:43,140

area and volume than if it was just

134

00:07:48,170 --> 00:07:45,630

we're in a 1g or on the environment like

135

00:07:50,030 --> 00:07:48,180

on the earth and we do get our own room

136

00:07:52,160 --> 00:07:50,040

it's a very very small room it's the

137

00:07:54,620 --> 00:07:52,170

size of a very small closet in your room

138

00:07:56,270 --> 00:07:54,630

like the linen closet oral if you're you

139

00:07:58,430 --> 00:07:56,280

probably don't remember phone booths but

140

00:07:59,870 --> 00:07:58,440

like the size of a small phone booth so

141

00:08:02,180 --> 00:07:59,880

it's a very small area but it's more

142

00:08:07,510 --> 00:08:02,190

than enough to hang up our sleeping bag

143

00:08:12,309 --> 00:08:10,089

you know wreck I really miss using the

144

00:08:13,779 --> 00:08:12,319

roof last time I came home from space I

145

00:08:15,670 --> 00:08:13,789

used to sleep on the roof and I was

146

00:08:19,210 --> 00:08:15,680

pretty surprised to wake up on the full

147

00:08:23,350 --> 00:08:19,220

on the not not sleeping on the roof next

148

00:08:31,600 --> 00:08:23,360

question Steve from Michael joven at st.

149

00:08:39,389 --> 00:08:31,610

Michael school do you have plans on the

150

00:08:44,230 --> 00:08:42,159

don't have plants personally but we have

151
00:08:45,670 --> 00:08:44,240
experiments that have plants and we try

152
00:08:48,190 --> 00:08:45,680
to grow the plants to the experiments

153
00:08:49,990 --> 00:08:48,200
there's also I know a few of our Russian

154
00:08:52,389 --> 00:08:50,000
colleagues have tried to go plants

155
00:08:55,180 --> 00:08:52,399
themselves by keeping them in a ziploc

156
00:08:57,400 --> 00:08:55,190
bag and putting some water with it kind

157
00:08:59,230 --> 00:08:57,410
of like a hydroponic plant I know we've

158
00:09:06,550 --> 00:08:59,240
actually tasted some of the onions they

159
00:09:09,160 --> 00:09:06,560
grew that way is very delicious thanks

160
00:09:11,710 --> 00:09:09,170
Steve and for co e cheese our next

161
00:09:15,880 --> 00:09:11,720
question from angela and i can't

162
00:09:22,660 --> 00:09:15,890
pronounce that as a kehinde e can be

163
00:09:31,750 --> 00:09:22,670

very nice here you go what types of food

164

00:09:35,440 --> 00:09:31,760

do you eat yes we have all kinds of very

165

00:09:38,139 --> 00:09:35,450

tasty space food meat fish that's my

166

00:09:41,380 --> 00:09:38,149

favorite the vegetables dessert and

167

00:09:43,960 --> 00:09:41,390

those are from the partner countries of

168

00:09:45,730 --> 00:09:43,970

the International Space Station United

169

00:09:49,480 --> 00:09:45,740

States Russia Europe Canada and Japan

170

00:09:51,990 --> 00:09:49,490

and recently we had SpaceX Dragon

171

00:09:54,519 --> 00:09:52,000

spacecraft which brought us fresh food

172

00:09:57,190 --> 00:09:54,529

fruits and vegetables which is very rare

173

00:10:05,560 --> 00:09:57,200

for us to have and I really wish that we

174

00:10:10,750 --> 00:10:08,050

thanks Luigi I enjoyed some of the

175

00:10:12,990 --> 00:10:10,760

special Japanese food you brought up

176

00:10:15,790 --> 00:10:13,000

last time we were in space together also

177

00:10:22,030 --> 00:10:15,800

for Rick the next question Rachel

178

00:10:23,770 --> 00:10:22,040

chambers from Butler University what has

179

00:10:25,810 --> 00:10:23,780

been the greatest experience you have

180

00:10:33,580 --> 00:10:25,820

had thus far in space and how has that

181

00:10:35,020 --> 00:10:33,590

experience affected you as a person yeah

182

00:10:36,850 --> 00:10:35,030

you know I've had a lot of great

183

00:10:38,440 --> 00:10:36,860

experiences up here but probably the

184

00:10:39,670 --> 00:10:38,450

thing that I enjoy the most are the

185

00:10:42,130 --> 00:10:39,680

spacewalks I've got to do a few

186

00:10:44,590 --> 00:10:42,140

spacewalks and when you're out there in

187

00:10:46,240 --> 00:10:44,600

your space suit and you're translating

188

00:10:48,180 --> 00:10:46,250

around the outside of the space station

189

00:10:50,590 --> 00:10:48,190

you have these great views of the earth

190

00:10:52,450 --> 00:10:50,600

just your visor between you and the

191

00:10:54,310 --> 00:10:52,460

vacuum of space you got these wide

192

00:10:55,840 --> 00:10:54,320

panoramic views of the earth as the Sun

193

00:10:57,280 --> 00:10:55,850

risers they're just incredible and

194

00:10:59,620 --> 00:10:57,290

working out there on the space station

195

00:11:02,410 --> 00:10:59,630

it's very very difficult work but it's

196

00:11:03,550 --> 00:11:02,420

also very very rewarding I don't know if

197

00:11:05,230 --> 00:11:03,560

that's going to change me as a person

198

00:11:06,550 --> 00:11:05,240

but it's certainly something that I'm

199

00:11:08,650 --> 00:11:06,560

going to remember for the rest of my

200

00:11:10,420 --> 00:11:08,660

life being out there and helping to

201
00:11:16,780 --> 00:11:10,430
build the space station in the beautiful

202
00:11:19,240 --> 00:11:16,790
views of the earth I think that was your

203
00:11:22,690 --> 00:11:19,250
what ninth spacewalk Rick and I watched

204
00:11:24,850 --> 00:11:22,700
every bit of it great job one thing I

205
00:11:26,470 --> 00:11:24,860
used to say to our my crews as I went

206
00:11:28,930 --> 00:11:26,480
out on a spacewalk is the only thing we

207
00:11:31,150 --> 00:11:28,940
know won't happen is plan a and it

208
00:11:36,280 --> 00:11:31,160
looked like you made plan a happen this

209
00:11:38,500 --> 00:11:36,290
time next question for Steve from a is

210
00:11:43,030 --> 00:11:38,510
for Steve from Anthony hands from

211
00:11:45,430 --> 00:11:43,040
Michael school anthony what is your

212
00:11:51,760 --> 00:11:45,440
least favorite thing to do in space and

213
00:11:55,150 --> 00:11:51,770

why my least favorite thing to do in

214

00:11:56,920 --> 00:11:55,160

space Anthony good question I like most

215

00:11:58,750 --> 00:11:56,930

things up here but there is probably one

216

00:12:00,940 --> 00:11:58,760

thing I don't like doing and I'm gonna

217

00:12:02,980 --> 00:12:00,950

have to mr. Wolfe there or dr. Wolfe

218

00:12:04,360 --> 00:12:02,990

have to explain the details of this one

219

00:12:07,180 --> 00:12:04,370

but I'm just going to say it's going to

220

00:12:09,340 --> 00:12:07,190

get messy and it has to do with going to

221

00:12:19,350 --> 00:12:09,350

the bathroom but Dave wolf can explain

222

00:12:26,020 --> 00:12:21,940

we have quite a crowd here that's pretty

223

00:12:28,990 --> 00:12:26,030

interested this in run by the way we're

224

00:12:31,270 --> 00:12:29,000

on question 13 now out of 20 just to

225

00:12:34,480 --> 00:12:31,280

keep you updated on the schedule for co

226

00:12:39,460 --> 00:12:34,490

EG please cooper has a question from

227

00:12:48,030 --> 00:12:39,470

sycamore school what do you do with

228

00:12:54,010 --> 00:12:51,220

cooper that's a good question we keep

229

00:12:58,420 --> 00:12:54,020

the human waste in a container like this

230

00:13:00,820 --> 00:12:58,430

size and then we load this containers to

231

00:13:03,070 --> 00:13:00,830

a cargo vehicle when it arrives here and

232

00:13:05,230 --> 00:13:03,080

when the cargo vehicle arrives I mean

233

00:13:07,900 --> 00:13:05,240

the departs from the space station it

234

00:13:10,090 --> 00:13:07,910

departs with the other containers and it

235

00:13:19,090 --> 00:13:10,100

will burn up during the re-entry to the

236

00:13:22,810 --> 00:13:19,100

atmosphere thanks sweetie Rick miles

237

00:13:28,090 --> 00:13:22,820

come be four million Apple school 60

238

00:13:29,860 --> 00:13:28,100

with your next question do you get to

239

00:13:36,670 --> 00:13:29,870

talk with your family while you're on

240

00:13:38,170 --> 00:13:36,680

board oh yeah that's we do we get very

241

00:13:40,360 --> 00:13:38,180

we have very good connectivity with our

242

00:13:41,770 --> 00:13:40,370

family up here we have a actually have a

243

00:13:43,570 --> 00:13:41,780

telephone where we can call just about

244

00:13:45,690 --> 00:13:43,580

anywhere in the world when we have the

245

00:13:48,700 --> 00:13:45,700

proper communication satellites in place

246

00:13:50,260 --> 00:13:48,710

we also have email of course and then

247

00:13:53,590 --> 00:13:50,270

once a week we get to do a video

248

00:13:55,450 --> 00:13:53,600

conference with our families so I talked

249

00:13:56,920 --> 00:13:55,460

to my family almost every day I have a

250

00:13:58,600 --> 00:13:56,930

video conference once a week and of

251
00:14:01,030 --> 00:13:58,610
course we email and exchange pictures

252
00:14:02,590 --> 00:14:01,040
and things like that so it's pretty it's

253
00:14:04,240 --> 00:14:02,600
not too bad we said I feel very close to

254
00:14:06,100 --> 00:14:04,250
my family and we've been communicating

255
00:14:11,010 --> 00:14:06,110
with them quite a bit since I've been up

256
00:14:16,110 --> 00:14:13,920
thanks Rick next questions for Steve by

257
00:14:18,060 --> 00:14:16,120
the way his name is steve swanson and we

258
00:14:20,850 --> 00:14:18,070
call him swanee in the astronaut office

259
00:14:23,520 --> 00:14:20,860
and that's why I'm calling him swanee

260
00:14:31,740 --> 00:14:23,530
during this so suwanee your next

261
00:14:37,970 --> 00:14:31,750
question is from my Ramiro please how

262
00:14:42,990 --> 00:14:40,830
that's a good question like a gravity

263
00:14:45,540 --> 00:14:43,000

does affect our bodies it makes us a

264

00:14:47,430 --> 00:14:45,550

weaker and it makes our bones weaker so

265

00:14:49,860 --> 00:14:47,440

we have to work out two hours every day

266

00:14:52,140 --> 00:14:49,870

to keep our our muscles strong and our

267

00:14:54,030 --> 00:14:52,150

bones very strong too or else when we

268

00:14:56,160 --> 00:14:54,040

get back to earth it's going to be a

269

00:14:58,680 --> 00:14:56,170

very difficult time for so it's that's

270

00:15:05,280 --> 00:14:58,690

important for us to stay and shape up

271

00:15:08,070 --> 00:15:05,290

here you guys are looking pretty good so

272

00:15:12,630 --> 00:15:08,080

you're doing a good job of it next

273

00:15:17,990 --> 00:15:12,640

question Kuiti please from Adler

274

00:15:28,410 --> 00:15:21,060

what does the girls look like from from

275

00:15:34,680 --> 00:15:28,420

from space oh that's a very good

276

00:15:38,670 --> 00:15:34,690

question the to us worth looks like blue

277

00:15:42,090 --> 00:15:38,680

a very beautiful oasis in the completely

278

00:15:44,340 --> 00:15:42,100

large pitch black space and I feel

279

00:15:51,660 --> 00:15:44,350

really lucky to be able to have such a

280

00:15:55,410 --> 00:15:51,670

wonderful planet there's a home thanks

281

00:16:01,050 --> 00:15:55,420

quechee Rick next questions from chris

282

00:16:02,790 --> 00:16:01,060

hayes st. Michael school how do you

283

00:16:08,160 --> 00:16:02,800

communicate with astronauts from

284

00:16:09,830 --> 00:16:08,170

different countries well hey Chris so

285

00:16:11,510 --> 00:16:09,840

actually

286

00:16:13,280 --> 00:16:11,520

the official language of the

287

00:16:15,260 --> 00:16:13,290

International Space Station is English

288

00:16:17,180 --> 00:16:15,270

and obviously the international partners

289

00:16:19,430 --> 00:16:17,190

all speak English very well but we also

290

00:16:21,020 --> 00:16:19,440

we also speak Russian because we

291

00:16:22,400 --> 00:16:21,030

launched on Russian vehicles so the

292

00:16:24,140 --> 00:16:22,410

three of us also had to study the

293

00:16:26,810 --> 00:16:24,150

Russian language so we do speak Russian

294

00:16:28,670 --> 00:16:26,820

a little bit also so basically we use

295

00:16:30,590 --> 00:16:28,680

English as the primary forms of

296

00:16:38,330 --> 00:16:30,600

communication but we also use Russian on

297

00:16:46,630 --> 00:16:38,340

occasion also a legion of operas e art

298

00:16:50,080 --> 00:16:46,640

event next Bob rose for steve from Alya

299

00:16:56,180 --> 00:16:50,090

or le aya help us pronounce your name

300

00:17:02,170 --> 00:16:56,190

Aaliyah hello Alea here you go what

301
00:17:06,980 --> 00:17:05,030
earlier that's a good question most

302
00:17:08,540 --> 00:17:06,990
people have other significant events in

303
00:17:09,380 --> 00:17:08,550
their life but I think actually for me

304
00:17:12,320 --> 00:17:09,390
was might have been just a little

305
00:17:14,180 --> 00:17:12,330
different I got inspired mostly to

306
00:17:16,310 --> 00:17:14,190
become an astronaut by watching and

307
00:17:18,980 --> 00:17:16,320
reading books about science fiction in

308
00:17:21,920 --> 00:17:18,990
space I just love those books and movies

309
00:17:23,449 --> 00:17:21,930
and TV shows and I got hooked on it at

310
00:17:31,890 --> 00:17:23,459
that point when I was a young kid and

311
00:17:42,160 --> 00:17:35,950
Thanks wani and for co lchi next

312
00:17:50,800 --> 00:17:42,170
question is from Larry Smith excuse me

313
00:17:52,810 --> 00:17:50,810

James I conical what basic requirements

314

00:17:58,380 --> 00:17:52,820

do astronauts have to meet to be

315

00:18:04,360 --> 00:18:01,810

James good question we need to be

316

00:18:06,760 --> 00:18:04,370

cleared on the medical requirements to

317

00:18:10,450 --> 00:18:06,770

fly in space and other requirements

318

00:18:13,570 --> 00:18:10,460

include the language skills as a Rick

319

00:18:16,030 --> 00:18:13,580

explain both in English and in Russian

320

00:18:18,580 --> 00:18:16,040

language and also we need to be a

321

00:18:21,550 --> 00:18:18,590

proficient in the spacewalk skills as

322

00:18:24,250 --> 00:18:21,560

well as robotic skills after we assigned

323

00:18:26,290 --> 00:18:24,260

to a space flight we go through training

324

00:18:35,170 --> 00:18:26,300

in different countries for two and a

325

00:18:40,740 --> 00:18:35,180

half years Thank You coochie and our

326

00:18:45,640 --> 00:18:40,750

last question number 20 is from every

327

00:18:47,710 --> 00:18:45,650

every Avery alcalde excuse me for

328

00:18:52,120 --> 00:18:47,720

pronouncing it not quite correctly here

329

00:18:57,610 --> 00:18:52,130

you go how long does it take to change

330

00:18:59,200 --> 00:18:57,620

into your space suit hey Avery yeah

331

00:19:00,970 --> 00:18:59,210

that's interesting question it doesn't

332

00:19:03,100 --> 00:19:00,980

take a long time to put the spacesuit on

333

00:19:06,460 --> 00:19:03,110

maybe it takes an hour or so to put the

334

00:19:10,000 --> 00:19:06,470

spacesuit on but it takes about four or

335

00:19:12,550 --> 00:19:10,010

five hours to fully prepare your body to

336

00:19:14,230 --> 00:19:12,560

go from inside the space Space Station

337

00:19:16,120 --> 00:19:14,240

to outside the space station and that's

338

00:19:19,120 --> 00:19:16,130

because we have to do a lot of breathing

339

00:19:20,980 --> 00:19:19,130

of pure oxygen and prepare our body get

340

00:19:22,750 --> 00:19:20,990

some kind of remove some of the nitrogen

341

00:19:25,270 --> 00:19:22,760

from our body so we don't get the bends

342

00:19:26,890 --> 00:19:25,280

when we go to that very low pressure in

343

00:19:29,080 --> 00:19:26,900

the spacesuit and out in the vacuum of

344

00:19:30,850 --> 00:19:29,090

space so the getting in the spacesuit is

345

00:19:32,890 --> 00:19:30,860

actually doesn't take very long maybe

346

00:19:35,290 --> 00:19:32,900

less than an hour but the preparing of

347

00:19:42,419 --> 00:19:35,300

your body to go outside and on a

348

00:19:45,629 --> 00:19:44,399

thanks a lot Rick in fact that's

349

00:19:48,720 --> 00:19:45,639

something we're going to talk about

350

00:19:50,129 --> 00:19:48,730

after our downlink is completed I'm

351

00:19:52,440 --> 00:19:50,139

going to spend some time with this

352

00:19:54,810 --> 00:19:52,450

rather large group going over some of

353

00:19:57,720 --> 00:19:54,820

these more detailed than we have time

354

00:20:00,029 --> 00:19:57,730

right now that was our last question I

355

00:20:03,269 --> 00:20:00,039

want to say hi though to Mikhail Oleg

356

00:20:05,430 --> 00:20:03,279

and Alexander also as well as it's been

357

00:20:08,039 --> 00:20:05,440

great seeing you guys I think I saw you

358

00:20:10,739 --> 00:20:08,049

last at the grocery store a little while

359

00:20:13,889 --> 00:20:10,749

ago suwanee coo EG we flew in space

360

00:20:16,950 --> 00:20:13,899

together on my last light Rick you know

361

00:20:18,570 --> 00:20:16,960

see an office all the time so it's just

362

00:20:20,609 --> 00:20:18,580

great getting to talk to you and spend

363

00:20:23,730 --> 00:20:20,619

time and I can't tell you how excited

364

00:20:27,180 --> 00:20:23,740

this really large group I know you can't

365

00:20:28,560 --> 00:20:27,190

see them but they are they are really

366

00:20:30,779 --> 00:20:28,570

thrilled to be talking to the

367

00:20:34,889 --> 00:20:30,789

International Space Station traveling at

368

00:20:39,330 --> 00:20:34,899

five miles per second over head around

369

00:20:41,129 --> 00:20:39,340

the earth and 16 times a day and we'll

370

00:20:42,749 --> 00:20:41,139

talk about that a little bit more later

371

00:20:44,759 --> 00:20:42,759

with the group is there anything else

372

00:20:47,100 --> 00:20:44,769

you folks would like to talk about in

373

00:20:52,889 --> 00:20:47,110

the last remaining moments or minutes

374

00:20:55,409 --> 00:20:52,899

that we might have yeah Dave it's a you

375

00:20:57,810 --> 00:20:55,419

know it's been really great to talk with

376

00:21:00,570 --> 00:20:57,820

you and last time when I was here you

377

00:21:02,789 --> 00:21:00,580

were here and we miss you very much here

378

00:21:04,950 --> 00:21:02,799

and it was great to hear your voice this

379

00:21:07,109 --> 00:21:04,960

time and thank you very much everyone

380

00:21:09,690 --> 00:21:07,119

for the wonderful questions it was

381

00:21:12,480 --> 00:21:09,700

really exciting to talk to with all of

382

00:21:15,389 --> 00:21:12,490

you and good luck with your study and I

383

00:21:17,129 --> 00:21:15,399

said to go high and aim for it and then

384

00:21:18,899 --> 00:21:17,139

if you do not give up your dreams will

385

00:21:25,000 --> 00:21:18,909

come true thank you very much for

386

00:21:29,200 --> 00:21:27,250

thank you great this money is going to

387

00:21:33,850 --> 00:21:29,210

do a flip you can probably hear all the

388

00:21:39,010 --> 00:21:33,860

clapping and that's a nice nice flip

389

00:21:42,370 --> 00:21:39,020

swanee double flip you might even get

390

00:21:45,850 --> 00:21:42,380

three out of that enjoy the rest of your

391

00:21:57,630 --> 00:21:45,860

time be safe be productive look forward

392

00:22:04,450 --> 00:22:00,670

station this is Houston ACR thank you

393

00:22:06,970 --> 00:22:04,460

that concludes our event Thank You Jill

394

00:22:09,430 --> 00:22:06,980

Thank You Museum of Indianapolis station