



1
00:00:10,580 --> 00:00:04,519
okay station this is Houston are you

2
00:00:15,169 --> 00:00:10,590
ready for the event Houston station were

3
00:00:17,930 --> 00:00:15,179
ready for the event US Department of

4
00:00:24,830 --> 00:00:17,940
Education this is Houston please call

5
00:00:26,060 --> 00:00:24,840
station for a voice check station this

6
00:00:28,490 --> 00:00:26,070
is Arne Duncan and we have some

7
00:00:30,470 --> 00:00:28,500
fantastic students here from deal middle

8
00:00:32,659 --> 00:00:30,480
school and heart middle school worth the

9
00:00:38,119 --> 00:00:32,669
Department of Education in Washington DC

10
00:00:39,799 --> 00:00:38,129
do you hear me ok we have you loud and

11
00:00:47,389 --> 00:00:39,809
clear welcome aboard the International

12
00:00:48,979 --> 00:00:47,399
Space Station thanks so much and welcome

13
00:00:51,080 --> 00:00:48,989

to the crew of the International Space

14

00:00:52,729 --> 00:00:51,090

Station commander Wheelock flight

15

00:00:55,520 --> 00:00:52,739

engineer Walker and flight engineer

16

00:00:57,470 --> 00:00:55,530

Kelly our students are ready and eager

17

00:00:59,420 --> 00:00:57,480

to hear from you thank you so much for

18

00:01:01,099 --> 00:00:59,430

taking the time to do this and the first

19

00:01:03,260 --> 00:01:01,109

question will come from Sophia acclaim

20

00:01:10,880 --> 00:01:03,270

in a deal middle school and Sophia

21

00:01:13,340 --> 00:01:10,890

you're up my name is Sophia and my

22

00:01:15,140 --> 00:01:13,350

question is for Doug Wheelock what kind

23

00:01:16,789 --> 00:01:15,150

of research are you working on and how

24

00:01:22,940 --> 00:01:16,799

will it help us understand our planet

25

00:01:24,499 --> 00:01:22,950

and the universe hi Sophia well that's a

26

00:01:27,320 --> 00:01:24,509

great question and that's the purpose

27

00:01:29,240 --> 00:01:27,330

the prime purpose while we're here on

28

00:01:31,550 --> 00:01:29,250

the space station is to operate these

29

00:01:33,319 --> 00:01:31,560

laboratories we haven't any one given

30

00:01:35,840 --> 00:01:33,329

time over a hundred and thirty

31

00:01:38,090 --> 00:01:35,850

experiments going on onboard we're

32

00:01:40,789 --> 00:01:38,100

studying studying the earth studying

33

00:01:43,730 --> 00:01:40,799

space studying our bodies and our bodies

34

00:01:45,950 --> 00:01:43,740

reaction to to being in space and long

35

00:01:48,530 --> 00:01:45,960

duration and trying to learn a little

36

00:01:51,289 --> 00:01:48,540

bit more about material development and

37

00:01:52,760 --> 00:01:51,299

development of medicine and

38

00:01:55,910 --> 00:01:52,770

pharmaceuticals and things like this and

39

00:01:57,740 --> 00:01:55,920

so so what we're trying to do is is

40

00:01:59,600 --> 00:01:57,750

operate these laboratories in the

41

00:02:01,130 --> 00:01:59,610

absence of gravity and when we take

42

00:02:03,319 --> 00:02:01,140

gravity out of the equation some

43

00:02:07,100 --> 00:02:03,329

sometimes some wonderful things happen

44

00:02:08,510 --> 00:02:07,110

things like crystals grow in in three

45

00:02:10,729 --> 00:02:08,520

dimension now rather than in two

46

00:02:12,640 --> 00:02:10,739

dimension like we we have on earth and

47

00:02:14,800 --> 00:02:12,650

we can

48

00:02:17,550 --> 00:02:14,810

through this process I developed new

49

00:02:20,289 --> 00:02:17,560

processes of developing materials and

50

00:02:23,559 --> 00:02:20,299

developing pharmaceuticals to help us in

51
00:02:25,839 --> 00:02:23,569
the areas of Medicine and also an in the

52
00:02:28,360 --> 00:02:25,849
process of doing that we're staying long

53
00:02:30,960 --> 00:02:28,370
duration on board the space station sort

54
00:02:33,610 --> 00:02:30,970
of replicating a transit time to another

55
00:02:36,250 --> 00:02:33,620
another body in our solar system be it

56
00:02:38,589 --> 00:02:36,260
Mars or the moon or or an asteroid or

57
00:02:41,020 --> 00:02:38,599
something and so we're using ourselves

58
00:02:45,099 --> 00:02:41,030
as test subjects as well to determine

59
00:02:46,780 --> 00:02:45,109
how we can survive and thrive in an

60
00:02:54,789 --> 00:02:46,790
environment away from grab earth's

61
00:03:02,949 --> 00:02:54,799
gravity for a long period of time thank

62
00:03:05,319 --> 00:03:02,959
you my name is Gary and my question is

63
00:03:07,690 --> 00:03:05,329

for Shannon Walker how do you

64

00:03:13,720 --> 00:03:07,700

communicate with other crew members if

65

00:03:16,030 --> 00:03:13,730

people are from different countries here

66

00:03:17,430 --> 00:03:16,040

that's a good question one thing we have

67

00:03:19,869 --> 00:03:17,440

to do is learn different languages

68

00:03:22,030 --> 00:03:19,879

another thing is we generally speak

69

00:03:23,920 --> 00:03:22,040

English aboard the space station but I

70

00:03:25,750 --> 00:03:23,930

can assure you when I was studying in

71

00:03:27,129 --> 00:03:25,760

Russia to be the co-pilot of the Soyuz I

72

00:03:28,750 --> 00:03:27,139

had to learn the Russian language so I

73

00:03:32,020 --> 00:03:28,760

could communicate with the Russian

74

00:03:41,320 --> 00:03:32,030

control center in Russian so basically

75

00:03:46,520 --> 00:03:44,240

my name is Alex and my question is for

76

00:03:48,920 --> 00:03:46,530

Scott Kelly do you have any free time

77

00:03:56,510 --> 00:03:48,930

and if so what do you do to entertain

78

00:03:58,070 --> 00:03:56,520

yourself well hi Alex we do have a

79

00:04:00,200 --> 00:03:58,080

little bit of free time you know we're

80

00:04:03,320 --> 00:04:00,210

normally very busy up here and most of

81

00:04:04,850 --> 00:04:03,330

our our working day and even some time

82

00:04:06,440 --> 00:04:04,860

in the evenings and on the weekends is

83

00:04:10,250 --> 00:04:06,450

spent working because there's so much to

84

00:04:11,690 --> 00:04:10,260

do but on that on those occasions where

85

00:04:13,010 --> 00:04:11,700

we do have some free time there are

86

00:04:15,650 --> 00:04:13,020

certain things we do to entertain

87

00:04:17,660 --> 00:04:15,660

ourselves one and I think most space

88

00:04:20,270 --> 00:04:17,670

stations crewmember members would agree

89

00:04:23,120 --> 00:04:20,280

the the best one is actually to look out

90

00:04:25,420 --> 00:04:23,130

at Planet Earth because it is so truly

91

00:04:28,760 --> 00:04:25,430

beautiful from this vantage point and

92

00:04:31,130 --> 00:04:28,770

because we fly around it every 90

93

00:04:34,520 --> 00:04:31,140

minutes we get to you know experience

94

00:04:37,100 --> 00:04:34,530

seeing places on earth from a distance

95

00:04:38,450 --> 00:04:37,110

that we might not get to experience you

96

00:04:39,980 --> 00:04:38,460

know if we travel there some day and

97

00:04:42,500 --> 00:04:39,990

it's a it's a really interesting

98

00:04:44,750 --> 00:04:42,510

perspective to look at earth above the

99

00:04:47,540 --> 00:04:44,760

atmosphere it's a very very beautiful

100

00:04:51,860 --> 00:04:47,550

planet and you know we're all fortunate

101
00:04:53,720 --> 00:04:51,870
to have it also we have to exercise a

102
00:04:56,290 --> 00:04:53,730
lot on board and most crew members

103
00:04:58,970 --> 00:04:56,300
really enjoy doing that because normally

104
00:05:00,830 --> 00:04:58,980
flying around in microgravity you don't

105
00:05:04,280 --> 00:05:00,840
get a whole lot exercise like you might

106
00:05:06,440 --> 00:05:04,290
you know just walking around on earth so

107
00:05:08,440 --> 00:05:06,450
exercise becomes very important to us we

108
00:05:13,370 --> 00:05:08,450
we have a bunch of movies we can watch

109
00:05:15,520 --> 00:05:13,380
we listen to music read so a lot of the

110
00:05:17,450 --> 00:05:15,530
things that you would do on earth for

111
00:05:28,750 --> 00:05:17,460
entertainment we also do here on the

112
00:05:33,620 --> 00:05:31,430
my name is Deon say and my question is

113
00:05:35,300 --> 00:05:33,630

for Doug Wheelock what is the

114

00:05:41,900 --> 00:05:35,310

International Space Station missile

115

00:05:44,450 --> 00:05:41,910

accomplish I Deonte well that's a very

116

00:05:46,100 --> 00:05:44,460

good question and that's our primary

117

00:05:48,080 --> 00:05:46,110

purpose here is to operate this

118

00:05:51,140 --> 00:05:48,090

laboratory where world-class laboratory

119

00:05:54,560 --> 00:05:51,150

and we offer in a unique environment up

120

00:05:56,990 --> 00:05:54,570

here inside of the station we can we can

121

00:05:58,700 --> 00:05:57,000

offer an environment where we remove

122

00:06:01,460 --> 00:05:58,710

gravity from the equation and all these

123

00:06:04,870 --> 00:06:01,470

scientific studies and in the areas of

124

00:06:07,010 --> 00:06:04,880

research of pharmaceuticals medical

125

00:06:09,590 --> 00:06:07,020

biological experiments and things like

126

00:06:11,990 --> 00:06:09,600

this and also we have outside of the

127

00:06:13,730 --> 00:06:12,000

space station means to conduct

128

00:06:16,910 --> 00:06:13,740

experiments out in the vacuum of space

129

00:06:20,450 --> 00:06:16,920

as well so so we're gathering all the

130

00:06:23,870 --> 00:06:20,460

science for for our scientists on on the

131

00:06:26,350 --> 00:06:23,880

earth and and and plan to return great

132

00:06:28,880 --> 00:06:26,360

scientific discoveries in the area of

133

00:06:32,180 --> 00:06:28,890

increased are in more efficient

134

00:06:34,550 --> 00:06:32,190

processes better materials there better

135

00:06:46,010 --> 00:06:34,560

pharmaceuticals that help our life on

136

00:06:52,770 --> 00:06:49,890

my name is Gus mark kent and my question

137

00:06:55,560 --> 00:06:52,780

for shannon walker and my question is

138

00:07:03,450 --> 00:06:55,570

for shannon walker how is food on earth

139

00:07:05,280 --> 00:07:03,460

different from food in space Doug just

140

00:07:07,410 --> 00:07:05,290

said it was tastier in some sense that's

141

00:07:09,180 --> 00:07:07,420

true the main difference between food on

142

00:07:11,220 --> 00:07:09,190

earth and food and spaces so much of

143

00:07:14,700 --> 00:07:11,230

what we have up here is dehydrated it

144

00:07:15,780 --> 00:07:14,710

takes a lot of fuel to get water up into

145

00:07:18,240 --> 00:07:15,790

space because water is actually

146

00:07:21,630 --> 00:07:18,250

relatively heavy so we remove the water

147

00:07:23,820 --> 00:07:21,640

on the ground and launch the food which

148

00:07:25,290 --> 00:07:23,830

is dehydrated into space so that is one

149

00:07:27,810 --> 00:07:25,300

of the biggest differences that we have

150

00:07:29,670 --> 00:07:27,820

and so you ask well what do you do we've

151
00:07:31,050 --> 00:07:29,680
got water up here where does that come

152
00:07:32,700 --> 00:07:31,060
from if we're not launching it we

153
00:07:35,280 --> 00:07:32,710
actually make water when the shuttle is

154
00:07:36,930 --> 00:07:35,290
on attached to the station we can get

155
00:07:40,440 --> 00:07:36,940
water from the shuttle because they make

156
00:07:42,870 --> 00:07:40,450
that as a product for making electricity

157
00:07:44,910 --> 00:07:42,880
on the shuttle so we get water from the

158
00:07:54,310 --> 00:07:44,920
shuttle and then we also make water here

159
00:08:00,320 --> 00:07:57,800
my name is Nicholas and my my question

160
00:08:10,780 --> 00:08:00,330
is for Scott Kelly have you ever had a

161
00:08:17,430 --> 00:08:13,090
I think your question was have we ever

162
00:08:20,380 --> 00:08:17,440
had any problems here in space like

163
00:08:23,440 --> 00:08:20,390

potentially maybe you know a problem

164

00:08:26,440 --> 00:08:23,450

with a system or with you know one of

165

00:08:29,380 --> 00:08:26,450

the crew members medically we do

166

00:08:31,870 --> 00:08:29,390

occasionally have you no problems with

167

00:08:34,690 --> 00:08:31,880

the systems just about an hour ago we

168

00:08:36,730 --> 00:08:34,700

had a warning go off in the Russian

169

00:08:39,490 --> 00:08:36,740

segment of the system that of the space

170

00:08:45,280 --> 00:08:39,500

station that said there was a low level

171

00:08:48,370 --> 00:08:45,290

of oxygen in the in the Russian what's

172

00:08:49,990 --> 00:08:48,380

called the FGB or functional cargo block

173

00:08:52,420 --> 00:08:50,000

it's one of the Russian modules and it

174

00:08:55,210 --> 00:08:52,430

said the oxygen was very very low like

175

00:08:58,690 --> 00:08:55,220

you know maybe ten percent of what it

176

00:09:00,820 --> 00:08:58,700

should normally be and fortunately that

177

00:09:06,460 --> 00:09:00,830

wasn't a real emergency it was just a

178

00:09:08,650 --> 00:09:06,470

sensor but we do have more serious

179

00:09:11,380 --> 00:09:08,660

things happen at times when before I got

180

00:09:13,480 --> 00:09:11,390

here we had the failure of a pump that's

181

00:09:18,730 --> 00:09:13,490

very important to cooling the outside of

182

00:09:20,320 --> 00:09:18,740

the space station and so you know we do

183

00:09:23,050 --> 00:09:20,330

occasionally have things go wrong but we

184

00:09:34,320 --> 00:09:23,060

have ways to respond to those and then

185

00:09:41,080 --> 00:09:37,810

my name is Will and my question is for

186

00:09:49,810 --> 00:09:41,090

Doug Wheelock what is the most beautiful

187

00:09:53,350 --> 00:09:49,820

thing you have ever seen from space well

188

00:09:54,760 --> 00:09:53,360

that's a great question than enough the

189

00:09:59,410 --> 00:09:54,770

most beautiful thing is my crewmates

190

00:10:01,180 --> 00:09:59,420

Shannon well actually I think probably

191

00:10:03,070 --> 00:10:01,190

everyone would agree the most beautiful

192

00:10:05,860 --> 00:10:03,080

thing that we can see from the space

193

00:10:07,720 --> 00:10:05,870

station is our planet and and of course

194

00:10:09,790 --> 00:10:07,730

there are so many different things to

195

00:10:11,650 --> 00:10:09,800

see about our plan of both in daytime

196

00:10:14,080 --> 00:10:11,660

and nighttime you know when I first came

197

00:10:16,300 --> 00:10:14,090

up here I thought and I first got a

198

00:10:19,540 --> 00:10:16,310

chance to look at the earth the earth is

199

00:10:23,500 --> 00:10:19,550

like an explosion of color in this in

200

00:10:28,510 --> 00:10:23,510

this big sea of darkness that space that

201
00:10:30,220 --> 00:10:28,520
we know and and what you know I thought

202
00:10:31,810 --> 00:10:30,230
about what it would be like to go into

203
00:10:33,280 --> 00:10:31,820
eclipse and come on the back side of the

204
00:10:35,170 --> 00:10:33,290
earth when the earth was in darkness

205
00:10:37,600 --> 00:10:35,180
that I thought we'll probably it would

206
00:10:40,390 --> 00:10:37,610
just blend in with the darkness of deep

207
00:10:44,320 --> 00:10:40,400
space but but no the the earth at night

208
00:10:46,900 --> 00:10:44,330
as well is is just a live with with life

209
00:10:51,370 --> 00:10:46,910
and with motion and we get to see

210
00:10:53,620 --> 00:10:51,380
lightning and Aurora and city lights and

211
00:10:56,260 --> 00:10:53,630
it's just absolutely beautiful so I'll

212
00:11:00,700 --> 00:10:56,270
have to say that of my most beautiful

213
00:11:03,040 --> 00:11:00,710

sight so far of the earth has been back

214

00:11:05,710 --> 00:11:03,050

a couple of months ago I believe was in

215

00:11:08,290 --> 00:11:05,720

July or August we were able to see the

216

00:11:10,330 --> 00:11:08,300

Southern Lights the Aurora over the over

217

00:11:13,540 --> 00:11:10,340

the South Pole and we actually had a

218

00:11:15,430 --> 00:11:13,550

night where the moon was full and the

219

00:11:17,890 --> 00:11:15,440

Sun was coming up and we had this

220

00:11:20,230 --> 00:11:17,900

beautiful aurora and the moon was

221

00:11:22,930 --> 00:11:20,240

shining was shining off the Aurora as

222

00:11:24,580 --> 00:11:22,940

was the Sun the Rising Sun and so is

223

00:11:27,010 --> 00:11:24,590

pretty it was pretty dramatic and very

224

00:11:29,560 --> 00:11:27,020

just a beautiful beautiful picture out

225

00:11:39,540 --> 00:11:29,570

the window and we all were glued glued

226

00:11:44,610 --> 00:11:42,000

my name is shaquanna and my question is

227

00:11:46,800 --> 00:11:44,620

for shannon walker do you feel like your

228

00:11:52,680 --> 00:11:46,810

personality or the way you think change

229

00:11:54,570 --> 00:11:52,690

is why you are in space shaquanna that

230

00:11:55,829 --> 00:11:54,580

is a very interesting question and to be

231

00:11:58,170 --> 00:11:55,839

honest I've never really thought about

232

00:12:00,930 --> 00:11:58,180

it I think I'd have to ask my crewmates

233

00:12:02,430 --> 00:12:00,940

to see if they think that I have changed

234

00:12:04,500 --> 00:12:02,440

while I've been in space i don't think

235

00:12:06,720 --> 00:12:04,510

i've i've changed my personality have

236

00:12:08,850 --> 00:12:06,730

changed or how i think through things

237

00:12:10,110 --> 00:12:08,860

has changed but i think my crewmates

238

00:12:21,540 --> 00:12:10,120

would probably be the final judge of

239

00:12:27,639 --> 00:12:24,190

my name is a mocha Hudson and my

240

00:12:35,740 --> 00:12:27,649

question is for Scott Kelly do you feel

241

00:12:38,500 --> 00:12:35,750

like your job is dangerous well you know

242

00:12:40,300 --> 00:12:38,510

flying in spaces is somewhat dangerous

243

00:12:43,660 --> 00:12:40,310

you know we're flying around the earth

244

00:12:48,630 --> 00:12:43,670

at 17,500 miles an hour in a you know

245

00:12:51,819 --> 00:12:48,640

almost near vacuum and to get here

246

00:12:55,600 --> 00:12:51,829

requires a incredible amount of energy

247

00:12:57,639 --> 00:12:55,610

to get going that fast and you know to

248

00:12:59,259 --> 00:12:57,649

get home we have to remove that energy

249

00:13:03,400 --> 00:12:59,269

out of the vehicle whether it's a Soyuz

250

00:13:07,630 --> 00:13:03,410

or a space shuttle so you know it is

251
00:13:11,350 --> 00:13:07,640
risky and somewhat dangerous but you

252
00:13:15,340 --> 00:13:11,360
know the different government agencies

253
00:13:16,990 --> 00:13:15,350
whether it's NASA or the other partners

254
00:13:19,210 --> 00:13:17,000
on International Space Station work

255
00:13:23,560 --> 00:13:19,220
really really hard to make it as safe as

256
00:13:26,590 --> 00:13:23,570
as we possibly can so you know it has

257
00:13:33,939 --> 00:13:26,600
risk but normally doing great things

258
00:13:37,300 --> 00:13:33,949
have always involved risk so you know

259
00:13:48,000 --> 00:13:37,310
even though it's dangerous I'm happy and

260
00:13:53,680 --> 00:13:51,010
my name is ayana and my question is for

261
00:13:55,510 --> 00:13:53,690
the gweelok how does your body feel in

262
00:14:02,560 --> 00:13:55,520
space and is it very different from on

263
00:14:04,840 --> 00:14:02,570

earth hi Ayanna yes it is very different

264

00:14:06,700 --> 00:14:04,850

than on earth and then it actually feels

265

00:14:09,400 --> 00:14:06,710

a little strange when you first get here

266

00:14:13,000 --> 00:14:09,410

to space your your body of course

267

00:14:15,070 --> 00:14:13,010

everything is floating and so in the in

268

00:14:18,670 --> 00:14:15,080

the fluid in your inner ear sort of

269

00:14:21,130 --> 00:14:18,680

pools and stops the rotation and so it's

270

00:14:23,980 --> 00:14:21,140

so your sense of balance and up and down

271

00:14:25,690 --> 00:14:23,990

is a little bit confused and so the

272

00:14:27,700 --> 00:14:25,700

first couple of days up here in space

273

00:14:29,860 --> 00:14:27,710

it's a little confusing it can be a

274

00:14:31,690 --> 00:14:29,870

little disorienting especially when

275

00:14:34,030 --> 00:14:31,700

you're coming into a module you see

276

00:14:35,710 --> 00:14:34,040

around us here we've got experiments on

277

00:14:38,500 --> 00:14:35,720

the ceiling on the floor and the walls

278

00:14:40,750 --> 00:14:38,510

it doesn't matter where because because

279

00:14:43,360 --> 00:14:40,760

we have no gravity so we can use all the

280

00:14:46,600 --> 00:14:43,370

available surface space here and when

281

00:14:49,720 --> 00:14:46,610

you come into a module say upside down

282

00:14:52,269 --> 00:14:49,730

or something like that of B it would be

283

00:14:55,540 --> 00:14:52,279

a little bit miss orienting at first and

284

00:14:58,030 --> 00:14:55,550

so but your body adapts and you you know

285

00:15:01,780 --> 00:14:58,040

very very simple things are hard at

286

00:15:04,690 --> 00:15:01,790

first brushing your teeth drinking water

287

00:15:08,199 --> 00:15:04,700

our flu some sort of drink out of a bag

288

00:15:09,579 --> 00:15:08,209

eating food sleeping you know all these

289

00:15:11,860 --> 00:15:09,589

are very very simple things that we

290

00:15:13,570 --> 00:15:11,870

don't think about on earth but you have

291

00:15:15,670 --> 00:15:13,580

to rethink those things and relearn how

292

00:15:18,250 --> 00:15:15,680

to do those things once you come to

293

00:15:20,470 --> 00:15:18,260

space and and now after being here for

294

00:15:23,350 --> 00:15:20,480

so many days in so many weeks and months

295

00:15:25,420 --> 00:15:23,360

it's a it's hard to think back and

296

00:15:28,540 --> 00:15:25,430

remember life with gravity but we're

297

00:15:30,640 --> 00:15:28,550

going to get a we're going to see that

298

00:15:33,250 --> 00:15:30,650

big time at the end of this week when we

299

00:15:36,610 --> 00:15:33,260

return to the Planet Jenna and I would

300

00:15:38,260 --> 00:15:36,620

along with our crew may fielder but it

301
00:15:40,900 --> 00:15:38,270
is a little bit different on the body

302
00:15:42,910 --> 00:15:40,910
the body feels quite quite different

303
00:15:44,860 --> 00:15:42,920
when you get here to space and and will

304
00:15:46,210 --> 00:15:44,870
make the same as very similar adjustment

305
00:15:54,389 --> 00:15:46,220
when we get back to gravity it's great

306
00:15:59,170 --> 00:15:56,829
my name is Matthew and my question is

307
00:16:05,110 --> 00:15:59,180
for shannon walker how long did you

308
00:16:06,639 --> 00:16:05,120
train for going into space matthew great

309
00:16:08,949 --> 00:16:06,649
question we actually trained a really

310
00:16:10,750 --> 00:16:08,959
long time before going into space when i

311
00:16:13,720 --> 00:16:10,760
first became an astronaut I trained for

312
00:16:15,610 --> 00:16:13,730
two years learning how to are learning

313
00:16:17,620 --> 00:16:15,620

about the shuttle and the space station

314

00:16:19,360 --> 00:16:17,630

learning all the systems and then when I

315

00:16:21,400 --> 00:16:19,370

was assigned to this particular mission

316

00:16:33,610 --> 00:16:21,410

I trained for three years before i was

317

00:16:35,590 --> 00:16:33,620

finally launched into space thank you my

318

00:16:38,439 --> 00:16:35,600

name is Alyssa and my question is for

319

00:16:46,810 --> 00:16:38,449

Scott Kelly what inspired you to become

320

00:16:48,910 --> 00:16:46,820

an astronaut well Alyssa I when I was a

321

00:16:51,430 --> 00:16:48,920

kid it was definitely something I was

322

00:16:53,410 --> 00:16:51,440

interested in you know like a lot of

323

00:16:55,840 --> 00:16:53,420

kids are interested in doing things like

324

00:17:01,389 --> 00:16:55,850

you know flying in space or you know

325

00:17:03,460 --> 00:17:01,399

other challenging you know endeavors but

326

00:17:05,409 --> 00:17:03,470

it wasn't really until later when I was

327

00:17:07,270 --> 00:17:05,419

a pilot in the United States Navy and I

328

00:17:08,409 --> 00:17:07,280

became a tech became a test pilot that I

329

00:17:12,699 --> 00:17:08,419

actually thought it was something that

330

00:17:16,449 --> 00:17:12,709

was was achievable for me and you know

331

00:17:18,520 --> 00:17:16,459

as a pilot in the military for me it

332

00:17:21,490 --> 00:17:18,530

just seemed like the next most

333

00:17:34,590 --> 00:17:21,500

challenging type of flying and that's

334

00:17:39,370 --> 00:17:37,330

my name is Elizabeth and my question is

335

00:17:41,560 --> 00:17:39,380

for Doug Wheelock do you have a

336

00:17:48,490 --> 00:17:41,570

telescope on board and if so what can

337

00:17:50,830 --> 00:17:48,500

you see through it thank you hi

338

00:17:53,290 --> 00:17:50,840

Elizabeth good question we do not have a

339

00:17:55,900 --> 00:17:53,300

telescope on board but we have very very

340

00:17:58,330 --> 00:17:55,910

powerful camera lenses and some

341

00:18:01,690 --> 00:17:58,340

binoculars and things that we use very

342

00:18:06,940 --> 00:18:01,700

great we have a wide range of camera

343

00:18:09,190 --> 00:18:06,950

lenses on board and then at the towards

344

00:18:11,470 --> 00:18:09,200

the end of actually the beginning of

345

00:18:13,990 --> 00:18:11,480

next year there'll be a space shuttle

346

00:18:16,480 --> 00:18:14,000

launching with a with it with a very

347

00:18:18,760 --> 00:18:16,490

powerful telescope on it that will go on

348

00:18:22,120 --> 00:18:18,770

the outside of the space station they'll

349

00:18:25,540 --> 00:18:22,130

be used for scientists on the earth to

350

00:18:27,160 --> 00:18:25,550

study our to study our universe and but

351
00:18:29,590 --> 00:18:27,170
on board we just have very very powerful

352
00:18:42,080 --> 00:18:29,600
cameras that we can see a very fine

353
00:18:46,519 --> 00:18:43,940
I want to thank you guys so much for

354
00:18:48,620 --> 00:18:46,529
taking the time to spend of our students

355
00:18:49,940 --> 00:18:48,630
again this is fascinating and I look

356
00:18:51,710 --> 00:18:49,950
forward to this so much each year and I

357
00:18:53,269 --> 00:18:51,720
have a buddy of you are sitting next to

358
00:18:54,620 --> 00:18:53,279
me Leland Melvin I wanted him to just

359
00:19:00,140 --> 00:18:54,630
say hello to you and then we'll close

360
00:19:03,409 --> 00:19:00,150
out that you guys get back to work hey

361
00:19:04,789 --> 00:19:03,419
wheels miss O'Malley and Scott it's

362
00:19:06,049 --> 00:19:04,799
really great to see you guys up there

363
00:19:07,669 --> 00:19:06,059

and I'm really proud of what you're

364

00:19:10,279 --> 00:19:07,679

doing and helping inspire that next

365

00:19:11,419 --> 00:19:10,289

generation so I look forward to seeing

366

00:19:13,310 --> 00:19:11,429

you back on the ground i'll have that

367

00:19:18,700 --> 00:19:13,320

cheeseburger ready for you when you when

368

00:19:23,269 --> 00:19:21,649

okay thank thanks Leela and to all the

369

00:19:25,610 --> 00:19:23,279

students that are there and in the

370

00:19:28,190 --> 00:19:25,620

administrative staff and the faculty and

371

00:19:30,440 --> 00:19:28,200

teachers that are there thank you really

372

00:19:31,970 --> 00:19:30,450

really great questions was a real

373

00:19:35,269 --> 00:19:31,980

pleasure having you onboard the space

374

00:19:36,320 --> 00:19:35,279

station with us today and and actually

375

00:19:38,960 --> 00:19:36,330

we wanted to do a little bit of

376

00:19:40,730 --> 00:19:38,970

demonstration here this is a EMU

377

00:19:43,820 --> 00:19:40,740

spacesuit a spacesuit that we use for

378

00:19:46,850 --> 00:19:43,830

our spacewalks and this suit on the

379

00:19:50,659 --> 00:19:46,860

planet Earth weighs about 300 to 350

380

00:19:53,029 --> 00:19:50,669

pounds and so you can see how how how

381

00:19:56,600 --> 00:19:53,039

easy it is to move around here in space

382

00:19:58,460 --> 00:19:56,610

and so our little demonstration with

383

00:20:00,019 --> 00:19:58,470

weightlessness in space but with the one

384

00:20:03,019 --> 00:20:00,029

thing that we have to remember very very

385

00:20:05,240 --> 00:20:03,029

important in the ways of science that

386

00:20:06,980 --> 00:20:05,250

they although things are weightless they

387

00:20:09,080 --> 00:20:06,990

still have mass and we have to be very

388

00:20:10,940 --> 00:20:09,090

careful as we move large objects like

389

00:20:13,820 --> 00:20:10,950

this around both inside the space

390

00:20:16,340 --> 00:20:13,830

station and outside so whenever you

391

00:20:18,289 --> 00:20:16,350

propel an object with a certain force

392

00:20:20,240 --> 00:20:18,299

it's going to take an equal and opposite

393

00:20:22,190 --> 00:20:20,250

force to stop that object as well so

394

00:20:23,840 --> 00:20:22,200

sometimes it's a hard lesson to learn as

395

00:20:26,149 --> 00:20:23,850

well but thank you for joining us and

396

00:20:40,100 --> 00:20:26,159

have a great day and and we'll look

397

00:20:46,169 --> 00:20:42,480

station this is Houston ACR that

398

00:20:47,940 --> 00:20:46,179

concludes the event thank you thank you

399

00:20:50,730 --> 00:20:47,950

the Secretary of Education Arne Duncan

400

00:20:53,580 --> 00:20:50,740

and two participants at the Department

401

00:20:56,640 --> 00:20:53,590

of Education wash everybody's station

402

00:20:59,370 --> 00:20:56,650

please stand by while we reconfigure