



1  
00:00:07,749 --> 00:00:02,310  
station this is houston are you ready

2  
00:00:12,629 --> 00:00:10,470  
yes i am ready for the event

3  
00:00:16,070 --> 00:00:12,639  
tokyo this is houston please call

4  
00:00:18,790 --> 00:00:16,080  
station for a voice check

5  
00:00:21,670 --> 00:00:18,800  
thanks hao station this is soichi

6  
00:00:25,670 --> 00:00:21,680  
noguchi from prime minister's office how

7  
00:00:43,990 --> 00:00:28,390  
hi soji i read you loud and clear

8  
00:00:48,310 --> 00:00:46,150  
we have with us six children from the

9  
00:00:50,389 --> 00:00:48,320  
earthquakes to canarias along with the

10  
00:00:52,389 --> 00:00:50,399  
prime minister and minister of the

11  
00:00:54,869 --> 00:00:52,399  
ministry of education science and

12  
00:00:58,790 --> 00:00:54,879  
technology prime minister please

13  
00:01:00,950 --> 00:00:58,800

dr furuka uh i am naotokan prime

14

00:01:03,510 --> 00:01:00,960

minister of japan

15

00:01:06,310 --> 00:01:03,520

and it is

16

00:01:09,190 --> 00:01:06,320

a very happy opportunity for me to be

17

00:01:10,390 --> 00:01:09,200

connected with iss

18

00:01:13,270 --> 00:01:10,400

as i would like to ask the prime

19

00:01:17,270 --> 00:01:13,280

minister ask his question

20

00:01:19,109 --> 00:01:17,280

allow me to first ask this question

21

00:01:22,550 --> 00:01:19,119

when i was a child

22

00:01:25,429 --> 00:01:22,560

i wanted to become an astronaut or

23

00:01:30,469 --> 00:01:25,439

and become an engineer to fly rockets to

24

00:01:34,149 --> 00:01:32,230

being on a spaceship

25

00:01:40,630 --> 00:01:34,159

and observing the earth

26

00:01:44,950 --> 00:01:43,030

what do you feel

27

00:01:47,510 --> 00:01:44,960

i think it's impossible for us to

28

00:01:50,310 --> 00:01:47,520

observe the earth and being on earth but

29

00:01:53,270 --> 00:01:50,320

watching observing the earth as well as

30

00:01:59,830 --> 00:01:53,280

the moon and sun from your spaceship

31

00:02:03,590 --> 00:02:01,749

thank you very much for your question um

32

00:02:05,350 --> 00:02:03,600

it is a great honor for me to be able to

33

00:02:08,469 --> 00:02:05,360

speak with prime minister

34

00:02:11,589 --> 00:02:08,479

well when i observe the earth it's blue

35

00:02:12,630 --> 00:02:11,599

and beautiful during the daytime

36

00:02:14,550 --> 00:02:12,640

but

37

00:02:18,150 --> 00:02:14,560

what impressed me most

38

00:02:19,830 --> 00:02:18,160

is at the edge of the earth we see this

39

00:02:21,750 --> 00:02:19,840

atmosphere

40

00:02:24,229 --> 00:02:21,760

layer which is

41

00:02:27,830 --> 00:02:24,239

colored deep blue and this

42

00:02:30,949 --> 00:02:27,840

layer is protecting the earth and

43

00:02:32,869 --> 00:02:30,959

we have to preserve this earth which is

44

00:02:34,229 --> 00:02:32,879

indispensable to us

45

00:02:37,110 --> 00:02:34,239

now the sun

46

00:02:41,270 --> 00:02:37,120

yes it's very bright and it's

47

00:02:43,430 --> 00:02:41,280

white to yellowish color and it is very

48

00:02:45,350 --> 00:02:43,440

powerful muscular

49

00:02:48,710 --> 00:02:45,360

um and also

50

00:02:51,910 --> 00:02:48,720

sometimes appears to be very violent

51  
00:02:54,070 --> 00:02:51,920  
and um when we're on the surface of the

52  
00:02:56,869 --> 00:02:54,080  
space station um

53  
00:03:00,149 --> 00:02:56,879  
um it is more than 100 degrees celsius

54  
00:03:03,990 --> 00:03:00,159  
and um in the sunlight and about minus

55  
00:03:06,070 --> 00:03:04,000  
100 centimeter centigrade um in the dark

56  
00:03:08,070 --> 00:03:06,080  
and yes i think

57  
00:03:13,110 --> 00:03:08,080  
that the moon is quite similar to the

58  
00:03:17,830 --> 00:03:14,790  
thank you very much

59  
00:03:19,589 --> 00:03:17,840  
i also remember how the earth

60  
00:03:22,630 --> 00:03:19,599  
how i observe the earth from the

61  
00:03:25,190 --> 00:03:22,640  
spaceship as well might also invite mr

62  
00:03:27,990 --> 00:03:25,200  
takagi the minister of education science

63  
00:03:30,229 --> 00:03:28,000

and technology to ask the question i had

64

00:03:32,229 --> 00:03:30,239

a chance to see you in may it's been

65

00:03:33,990 --> 00:03:32,239

three months since then thank you for

66

00:03:37,430 --> 00:03:34,000

the great work that you did first and

67

00:03:39,910 --> 00:03:37,440

foremost as you became the astronaut

68

00:03:43,350 --> 00:03:39,920

it you spent 12 years before you made

69

00:03:45,110 --> 00:03:43,360

the first trip to the space so you spent

70

00:03:48,229 --> 00:03:45,120

many years going through lots of

71

00:03:50,229 --> 00:03:48,239

trainings and so you must be a person

72

00:03:52,949 --> 00:03:50,239

with much with a lot of patience and

73

00:03:53,910 --> 00:03:52,959

also perseverance how were you able to

74

00:03:55,670 --> 00:03:53,920

survive

75

00:03:58,149 --> 00:03:55,680

these many years going through all these

76

00:04:00,470 --> 00:03:58,159

trainings

77

00:04:01,830 --> 00:04:00,480

i really wanted to work

78

00:04:03,910 --> 00:04:01,840

in space

79

00:04:05,670 --> 00:04:03,920

i had this passion and termination and

80

00:04:07,350 --> 00:04:05,680

that support me to

81

00:04:10,630 --> 00:04:07,360

go through all these 12 years and

82

00:04:12,869 --> 00:04:10,640

certainly in retrospect um 12 years was

83

00:04:15,110 --> 00:04:12,879

a very long period of time so

84

00:04:17,990 --> 00:04:15,120

a kid who was born when i started

85

00:04:20,469 --> 00:04:18,000

training is now a sixth grader

86

00:04:23,830 --> 00:04:20,479

and after the uh the accident of the

87

00:04:26,550 --> 00:04:23,840

colombia in 2003 of course we felt

88

00:04:27,830 --> 00:04:26,560

completely at a loss and i personally

89

00:04:30,230 --> 00:04:27,840

did not

90

00:04:32,870 --> 00:04:30,240

was not able to foresee how things would

91

00:04:35,270 --> 00:04:32,880

develop going forward however i thought

92

00:04:36,950 --> 00:04:35,280

that it wouldn't do any good if i

93

00:04:39,510 --> 00:04:36,960

because if i just keep worrying about

94

00:04:41,430 --> 00:04:39,520

something that i cannot control myself i

95

00:04:42,790 --> 00:04:41,440

thought i should just do whatever i can

96

00:04:45,030 --> 00:04:42,800

and then tomorrow is going to be a

97

00:04:47,270 --> 00:04:45,040

better day than today and i thought that

98

00:04:49,430 --> 00:04:47,280

i'll be able to come closer to my

99

00:04:51,990 --> 00:04:49,440

objective and i think that paid off

100

00:04:54,310 --> 00:04:52,000

thank you very much for your question

101  
00:04:56,150 --> 00:04:54,320  
thank you so much

102  
00:04:58,230 --> 00:04:56,160  
thank you very much um we would like to

103  
00:05:00,390 --> 00:04:58,240  
ask the prime minister and minister to

104  
00:05:01,990 --> 00:05:00,400  
ask questions later on and now we are

105  
00:05:04,390 --> 00:05:02,000  
joined by six children from the

106  
00:05:07,189 --> 00:05:04,400  
earthquake-stricken areas

107  
00:05:08,150 --> 00:05:07,199  
and they will join us now

108  
00:05:12,390 --> 00:05:08,160  
please

109  
00:05:17,270 --> 00:05:15,430  
my name is shino kikochi i'm second

110  
00:05:19,270 --> 00:05:17,280  
grader of the fukushima university

111  
00:05:21,110 --> 00:05:19,280  
affiliated primary school

112  
00:05:23,670 --> 00:05:21,120  
many of my friends from kushima have

113  
00:05:25,029 --> 00:05:23,680

evacuated from their homes

114

00:05:27,430 --> 00:05:25,039

i hear

115

00:05:29,350 --> 00:05:27,440

the radiation level in outer space is

116

00:05:35,110 --> 00:05:29,360

higher than that on earth aren't you

117

00:05:40,150 --> 00:05:38,230

that is a very good question thank you

118

00:05:41,590 --> 00:05:40,160

at iss

119

00:05:43,550 --> 00:05:41,600

here

120

00:05:49,029 --> 00:05:43,560

we have between

121

00:05:52,070 --> 00:05:49,039

0.5 to 1 millisievert of exposure and so

122

00:05:54,150 --> 00:05:52,080

it is between 100 to 500 millisievert

123

00:05:56,550 --> 00:05:54,160

during six months of stay but i'm not

124

00:05:59,270 --> 00:05:56,560

scared this is the environment that i am

125

00:06:01,909 --> 00:05:59,280

in right now but i'm contacting various

126

00:06:05,029 --> 00:06:01,919

scientific experiments to make people's

127

00:06:07,270 --> 00:06:05,039

lives better and also try to make the

128

00:06:11,270 --> 00:06:07,280

preparation so that everyone can travel

129

00:06:13,590 --> 00:06:11,280

easily to space in the future thank you

130

00:06:16,150 --> 00:06:13,600

next mr ishibata

131

00:06:18,309 --> 00:06:16,160

yes my name is kay ishibata i'm a second

132

00:06:20,870 --> 00:06:18,319

grader of a junior high school affiliate

133

00:06:27,350 --> 00:06:20,880

with fukushima university in space where

134

00:06:31,029 --> 00:06:28,710

well thank you very much for your

135

00:06:33,670 --> 00:06:31,039

question as well now radiation comes

136

00:06:35,670 --> 00:06:33,680

from different places one of them is

137

00:06:37,110 --> 00:06:35,680

actually coming from the sun

138

00:06:39,029 --> 00:06:37,120

the sun

139

00:06:42,390 --> 00:06:39,039

is of course a very good planet that

140

00:06:45,110 --> 00:06:42,400

gives us the heat as well as the energy

141

00:06:47,029 --> 00:06:45,120

however it does also emit the radiation

142

00:06:50,070 --> 00:06:47,039

as well and also sun radiation comes

143

00:06:52,870 --> 00:06:50,080

from the outside of the

144

00:06:55,350 --> 00:06:52,880

sun system as well so we are exposed to

145

00:06:57,589 --> 00:06:55,360

different types of

146

00:07:00,150 --> 00:06:57,599

radiation in addition to

147

00:07:03,270 --> 00:07:00,160

x-ray and also gamma we also get other

148

00:07:07,029 --> 00:07:03,280

types of radiation as well and so we are

149

00:07:09,110 --> 00:07:07,039

at iss is also doing some study as to

150

00:07:11,430 --> 00:07:09,120

what kinds of radiation is coming with

151  
00:07:14,230 --> 00:07:11,440  
at what particular magnitude and when in

152  
00:07:16,309 --> 00:07:14,240  
particular man travels to the mars of

153  
00:07:18,870 --> 00:07:16,319  
course the radiation is a very critical

154  
00:07:21,270 --> 00:07:18,880  
issue and so how to protect the people

155  
00:07:22,550 --> 00:07:21,280  
from the radiation exposure through

156  
00:07:23,909 --> 00:07:22,560  
medicine as well as the food is

157  
00:07:26,309 --> 00:07:23,919  
something that we are studying thank you

158  
00:07:28,070 --> 00:07:26,319  
for the good question

159  
00:07:31,189 --> 00:07:28,080  
next miss fujita

160  
00:07:32,629 --> 00:07:31,199  
and from iraq prefecture

161  
00:07:34,790 --> 00:07:32,639  
my name is

162  
00:07:38,230 --> 00:07:34,800  
new fujita from

163  
00:07:40,150 --> 00:07:38,240

old municipal primary school

164

00:07:41,589 --> 00:07:40,160

when there was a blackout due to

165

00:07:43,670 --> 00:07:41,599

earthquake we experienced a number of

166

00:07:46,150 --> 00:07:43,680

difficulties and yet at night when i

167

00:07:48,070 --> 00:07:46,160

went outside the sky was

168

00:07:49,430 --> 00:07:48,080

beautiful filled with stars i'd never

169

00:07:51,830 --> 00:07:49,440

seen before

170

00:08:00,629 --> 00:07:51,840

is the difference in the stars you see

171

00:08:07,670 --> 00:08:04,070

yes i myself um i have gone to the

172

00:08:10,309 --> 00:08:07,680

mountains in a remote area um to train

173

00:08:13,029 --> 00:08:10,319

and it was like a jewel box the stars in

174

00:08:15,110 --> 00:08:13,039

the sky likewise in space we can see a

175

00:08:17,430 --> 00:08:15,120

number of stars but there is one

176

00:08:20,550 --> 00:08:17,440

difference in out in space

177

00:08:22,469 --> 00:08:20,560

the stars in space that we observe from

178

00:08:25,029 --> 00:08:22,479

here do not glitter

179

00:08:27,510 --> 00:08:25,039

well in on earth we can see the stars

180

00:08:29,510 --> 00:08:27,520

glittering because of the atmosphere

181

00:08:32,230 --> 00:08:29,520

but in outer space we can see a lot of

182

00:08:35,029 --> 00:08:32,240

stars but they do not glitter like we

183

00:08:37,029 --> 00:08:35,039

see on earth so from that perspective i

184

00:08:41,589 --> 00:08:37,039

think it's more romantic to observe

185

00:08:47,430 --> 00:08:45,269

thank you very much next mr oikawa

186

00:08:49,590 --> 00:08:47,440

well due to the march 11th earthquake

187

00:08:52,230 --> 00:08:49,600

the power and water supply got stopped

188

00:08:55,350 --> 00:08:52,240

and we also experienced experienced food

189

00:08:57,829 --> 00:08:55,360

shortage we felt very anxious and secure

190

00:09:00,790 --> 00:08:57,839

scared and yet we helped each other to

191

00:09:03,030 --> 00:09:00,800

overcome the situation at isf

192

00:09:05,910 --> 00:09:03,040

due to some unexpected situations such

193

00:09:13,190 --> 00:09:05,920

as blackout and the food shortage do you

194

00:09:16,550 --> 00:09:15,110

thank you very much for your good

195

00:09:22,230 --> 00:09:16,560

question

196

00:09:24,870 --> 00:09:22,240

feel uneasy because we astronauts have

197

00:09:28,389 --> 00:09:24,880

gone through many trainings and about 80

198

00:09:30,630 --> 00:09:28,399

to 90 percent of the trainings is to

199

00:09:33,269 --> 00:09:30,640

prepare ourselves for the emergency

200

00:09:35,030 --> 00:09:33,279

situations we are trained very well as

201  
00:09:37,509 --> 00:09:35,040  
to how we should be coping with the

202  
00:09:41,430 --> 00:09:37,519  
emergency situations that's why we don't

203  
00:09:43,350 --> 00:09:41,440  
feel uneasy and more than us it is the

204  
00:09:46,389 --> 00:09:43,360  
people in the control tower on the

205  
00:09:48,550 --> 00:09:46,399  
ground that have gone through even more

206  
00:09:50,550 --> 00:09:48,560  
trainings they are even better trained

207  
00:09:54,949 --> 00:09:50,560  
and because we are communicating with

208  
00:10:00,150 --> 00:09:57,670  
we do we do not feel uneasy and you

209  
00:10:02,150 --> 00:10:00,160  
mention unexpected situations that's a

210  
00:10:04,630 --> 00:10:02,160  
very good point of course in the

211  
00:10:07,110 --> 00:10:04,640  
training we do a stream

212  
00:10:09,110 --> 00:10:07,120  
particular scenarios and yet

213  
00:10:11,110 --> 00:10:09,120

there could be some situations where we

214

00:10:13,509 --> 00:10:11,120

have never expected or assumed in the

215

00:10:15,670 --> 00:10:13,519

trainings and if that happens we work

216

00:10:17,430 --> 00:10:15,680

together uh with the people on the

217

00:10:19,110 --> 00:10:17,440

ground and also work together amongst

218

00:10:22,230 --> 00:10:19,120

the crew in order to overcome the

219

00:10:25,910 --> 00:10:22,240

situations thank you so much

220

00:10:27,990 --> 00:10:25,920

thank you and next mr kimura

221

00:10:29,430 --> 00:10:28,000

my name is adriota kimura from tohoku

222

00:10:31,590 --> 00:10:29,440

background high school i'm a third

223

00:10:32,630 --> 00:10:31,600

grader which do you think will come

224

00:10:34,630 --> 00:10:32,640

first

225

00:10:36,949 --> 00:10:34,640

the time when mankind will go to another

226

00:10:38,949 --> 00:10:36,959

galaxy or the time when time space

227

00:10:40,630 --> 00:10:38,959

travel will become a common thing and

228

00:10:47,829 --> 00:10:40,640

how long do you think it will take for

229

00:10:50,150 --> 00:10:49,030

um

230

00:10:52,630 --> 00:10:50,160

i think

231

00:10:55,430 --> 00:10:52,640

the space travel will come first the

232

00:10:59,430 --> 00:10:55,440

reason is because

233

00:11:02,389 --> 00:10:59,440

going outside the galaxy requires that

234

00:11:05,190 --> 00:11:02,399

we develop an extremely high speed

235

00:11:06,790 --> 00:11:05,200

spaceship and therefore there is a need

236

00:11:08,550 --> 00:11:06,800

to have a breakthrough

237

00:11:10,069 --> 00:11:08,560

in order for that to happen of course if

238

00:11:13,190 --> 00:11:10,079

we could warp if that would be a

239

00:11:15,670 --> 00:11:13,200

different story now um making space

240

00:11:16,870 --> 00:11:15,680

travel a common thing well

241

00:11:19,590 --> 00:11:16,880

um i think

242

00:11:22,389 --> 00:11:19,600

it will start from a few times years

243

00:11:25,190 --> 00:11:22,399

from now but to make it

244

00:11:29,110 --> 00:11:25,200

easily accessible i think will require

245

00:11:31,430 --> 00:11:29,120

another 30 to 50 years well if you think

246

00:11:33,750 --> 00:11:31,440

about these history of aircrafts i think

247

00:11:37,509 --> 00:11:33,760

that is the length of time that we have

248

00:11:37,519 --> 00:11:41,110

next miss

249

00:11:45,990 --> 00:11:43,829

my name is sakuya kane i'm a third

250

00:11:49,190 --> 00:11:46,000

grader of izumi tadhyama high school in

251  
00:11:51,110 --> 00:11:49,200  
miyagi prefecture after the earthquake

252  
00:11:53,509 --> 00:11:51,120  
our life is difficult because of the

253  
00:11:57,030 --> 00:11:53,519  
stop of the parsh because of the power

254  
00:11:59,030 --> 00:11:57,040  
blackout at iss could power supply stop

255  
00:12:00,710 --> 00:11:59,040  
and if that happens then what kind of

256  
00:12:06,389 --> 00:12:00,720  
conditions do you have to be living in

257  
00:12:10,389 --> 00:12:07,990  
thank you very much for another good

258  
00:12:11,670 --> 00:12:10,399  
question the power blackout could happen

259  
00:12:13,110 --> 00:12:11,680  
here as well

260  
00:12:14,870 --> 00:12:13,120  
however

261  
00:12:16,629 --> 00:12:14,880  
the blackout is going to be slightly

262  
00:12:19,269 --> 00:12:16,639  
different from the one that you might

263  
00:12:20,470 --> 00:12:19,279

have at your house let me explain this a

264

00:12:23,590 --> 00:12:20,480

little bit more

265

00:12:26,230 --> 00:12:23,600

uh you have a one park grid coming into

266

00:12:28,710 --> 00:12:26,240

per cable coming into your house to

267

00:12:31,269 --> 00:12:28,720

receive the uh power however we are

268

00:12:34,069 --> 00:12:31,279

using the photovoltaic panel uh we have

269

00:12:35,990 --> 00:12:34,079

about eight panels or so to receive the

270

00:12:38,470 --> 00:12:36,000

power and because we are getting the

271

00:12:40,870 --> 00:12:38,480

power supply differently through all

272

00:12:43,430 --> 00:12:40,880

these different aid panels there could

273

00:12:45,430 --> 00:12:43,440

be some partial blackout and therefore

274

00:12:48,870 --> 00:12:45,440

for example half of the lights within a

275

00:12:50,470 --> 00:12:48,880

lavatory laboratory could go off and if

276

00:12:52,629 --> 00:12:50,480

that is the case of course we will cope

277

00:12:54,870 --> 00:12:52,639

with the situation and also in addition

278

00:12:57,430 --> 00:12:54,880

to the electricity there could be some

279

00:13:00,069 --> 00:12:57,440

power being stopped to be supplied to

280

00:13:01,670 --> 00:13:00,079

the computers which is very critical and

281

00:13:04,069 --> 00:13:01,680

if that happens of course we have to

282

00:13:06,230 --> 00:13:04,079

recover that in order to cope with that

283

00:13:08,389 --> 00:13:06,240

situation

284

00:13:11,110 --> 00:13:08,399

at the time of the design of the space

285

00:13:13,509 --> 00:13:11,120

station itself we first and foremost do

286

00:13:15,430 --> 00:13:13,519

assume different kinds of emergencies so

287

00:13:17,430 --> 00:13:15,440

that we could proactively

288

00:13:18,550 --> 00:13:17,440

take some counter images as to what we

289

00:13:20,470 --> 00:13:18,560

would do

290

00:13:22,150 --> 00:13:20,480

in case certain scenario happens for

291

00:13:24,870 --> 00:13:22,160

example when it comes to a computer that

292

00:13:28,389 --> 00:13:24,880

will control the direction of the space

293

00:13:30,069 --> 00:13:28,399

itself the space station itself um if

294

00:13:31,829 --> 00:13:30,079

the computer goes down and that will be

295

00:13:34,629 --> 00:13:31,839

very critical problem therefore we have

296

00:13:36,949 --> 00:13:34,639

a backup computer and we also have three

297

00:13:39,829 --> 00:13:36,959

computers to control um

298

00:13:42,310 --> 00:13:39,839

the system in the

299

00:13:45,910 --> 00:13:42,320

station so that we have the redundant

300

00:13:47,829 --> 00:13:45,920

system um and so this is how what's been

301  
00:13:49,829 --> 00:13:47,839  
incorporated already in the design of

302  
00:13:52,550 --> 00:13:49,839  
the computer as well so at the time of

303  
00:13:55,350 --> 00:13:52,560  
the design of the space station itself

304  
00:13:57,590 --> 00:13:55,360  
we do have to prepare ourselves as to

305  
00:14:01,750 --> 00:13:57,600  
how we should cope with the situations

306  
00:14:06,230 --> 00:14:03,829  
and this is also how this uh keyboard

307  
00:14:09,030 --> 00:14:06,240  
the japanese exp um the

308  
00:14:10,389 --> 00:14:09,040  
experiment model was designed as well

309  
00:14:11,670 --> 00:14:10,399  
but still

310  
00:14:13,829 --> 00:14:11,680  
um

311  
00:14:16,069 --> 00:14:13,839  
we might see some situations which were

312  
00:14:17,990 --> 00:14:16,079  
completely unexpected if that happens of

313  
00:14:19,430 --> 00:14:18,000

course we do interact and communicate

314

00:14:21,269 --> 00:14:19,440

with the people on the ground thank you

315

00:14:23,269 --> 00:14:21,279

so much

316

00:14:25,590 --> 00:14:23,279

it seems that we have some more time

317

00:14:27,590 --> 00:14:25,600

would anyone like to ask additional

318

00:14:29,350 --> 00:14:27,600

questions mr shiwata

319

00:14:31,430 --> 00:14:29,360

yes

320

00:14:33,829 --> 00:14:31,440

my name is ishiwata

321

00:14:35,110 --> 00:14:33,839

from fukushima university junior high

322

00:14:37,670 --> 00:14:35,120

school

323

00:14:39,670 --> 00:14:37,680

outside the iss

324

00:14:42,310 --> 00:14:39,680

when you do the space walk in your

325

00:14:46,470 --> 00:14:42,320

astronaut suit

326

00:14:48,870 --> 00:14:46,480

does it this space suit reflect um the

327

00:14:52,710 --> 00:14:48,880

radiation so that you're not exposed

328

00:14:57,590 --> 00:14:55,350

that is again a very good question

329

00:14:59,509 --> 00:14:57,600

yes um

330

00:15:02,389 --> 00:14:59,519

well um

331

00:15:05,189 --> 00:15:02,399

the space suit is not designed so that

332

00:15:07,350 --> 00:15:05,199

it can shield out radiation of course it

333

00:15:10,310 --> 00:15:07,360

does try to shut out to a certain extent

334

00:15:13,269 --> 00:15:10,320

but it does not contain any lead to try

335

00:15:15,829 --> 00:15:13,279

to totally shield radiation therefore

336

00:15:18,870 --> 00:15:15,839

and when we do the space walk of wearing

337

00:15:21,750 --> 00:15:18,880

the um space suit we will be exposed to

338

00:15:24,230 --> 00:15:21,760

a little more radiation than normal but

339

00:15:27,030 --> 00:15:24,240

it's only for six to eight hours that we

340

00:15:28,949 --> 00:15:27,040

do this work so it does not have a major

341

00:15:32,230 --> 00:15:28,959

impact on us thank you for the good

342

00:15:38,949 --> 00:15:34,230

thank you perhaps one more question from

343

00:15:42,629 --> 00:15:41,509

how much calorie do you consume in an

344

00:15:45,350 --> 00:15:42,639

iss

345

00:15:47,670 --> 00:15:45,360

is it different from us on the ground in

346

00:15:49,910 --> 00:15:47,680

addition to calcium

347

00:15:52,550 --> 00:15:49,920

do you intentionally take any particular

348

00:15:57,350 --> 00:15:52,560

nutritional elements at iss more than

349

00:16:03,829 --> 00:16:01,110

well thank you very much for the very um

350

00:16:06,389 --> 00:16:03,839

um technical question

351  
00:16:08,150 --> 00:16:06,399  
now we assume that we consume about

352  
00:16:10,629 --> 00:16:08,160  
three thousand a liter less than three

353  
00:16:11,670 --> 00:16:10,639  
thousand um kilocalorie

354  
00:16:13,749 --> 00:16:11,680  
however

355  
00:16:15,590 --> 00:16:13,759  
uh we don't necessarily take that much

356  
00:16:18,150 --> 00:16:15,600  
calorie because different from being on

357  
00:16:21,189 --> 00:16:18,160  
the ground we feel uh very full quite

358  
00:16:23,829 --> 00:16:21,199  
easily and i think it uh worth it does

359  
00:16:26,870 --> 00:16:23,839  
require more research as to why it is

360  
00:16:28,790 --> 00:16:26,880  
the case but because we feel so full uh

361  
00:16:30,949 --> 00:16:28,800  
we don't perhaps necessarily eat that

362  
00:16:33,430 --> 00:16:30,959  
much but of course if we feel hungry

363  
00:16:35,670 --> 00:16:33,440

then of course we do eat more and we

364

00:16:37,829 --> 00:16:35,680

also do need to make sure that we need

365

00:16:40,629 --> 00:16:37,839

to take calcium as well as protein in

366

00:16:43,509 --> 00:16:40,639

our food as well as vitamin d in order

367

00:16:45,910 --> 00:16:43,519

to make sure that the bone which has

368

00:16:47,269 --> 00:16:45,920

been weakened is can be strengthened

369

00:16:49,509 --> 00:16:47,279

thank you for the very scientific

370

00:16:52,069 --> 00:16:49,519

question

371

00:16:53,670 --> 00:16:52,079

thank you very much and dr furukawa for

372

00:16:55,990 --> 00:16:53,680

answering these very different questions

373

00:16:57,590 --> 00:16:56,000

with a smile now can we ask the prime

374

00:16:58,949 --> 00:16:57,600

minister if he has any additional

375

00:17:02,389 --> 00:16:58,959

questions or comments that you would

376

00:17:05,590 --> 00:17:02,399

like to make yes please yes i'd like to

377

00:17:08,150 --> 00:17:05,600

ask dr furukawa another question

378

00:17:09,590 --> 00:17:08,160

dr furukawa you are a doctor

379

00:17:10,710 --> 00:17:09,600

by profession

380

00:17:15,350 --> 00:17:10,720

and

381

00:17:21,110 --> 00:17:18,949

using your knowledge as a doctor

382

00:17:23,270 --> 00:17:21,120

are there any specific experiments that

383

00:17:25,429 --> 00:17:23,280

you're conducting or any specific

384

00:17:27,429 --> 00:17:25,439

research that you're conducting

385

00:17:29,990 --> 00:17:27,439

well i think

386

00:17:31,750 --> 00:17:30,000

your profession as a doctor and also

387

00:17:38,230 --> 00:17:31,760

your work at the spaceship might have

388

00:17:42,789 --> 00:17:40,230

thank you very much for the question

389

00:17:45,669 --> 00:17:42,799

well um yes um we are carrying out the

390

00:17:48,789 --> 00:17:45,679

protein crystal growth experiment in

391

00:17:50,150 --> 00:17:48,799

weightless environment and we can create

392

00:17:53,029 --> 00:17:50,160

more

393

00:17:55,430 --> 00:17:53,039

higher quality crystals and

394

00:17:57,990 --> 00:17:55,440

by taking this back um to earth and

395

00:18:00,390 --> 00:17:58,000

analyzing we can understand better the

396

00:18:02,549 --> 00:18:00,400

3d structure

397

00:18:06,549 --> 00:18:02,559

and we believe that this will link the

398

00:18:09,110 --> 00:18:06,559

way of two um curing cancers well about

399

00:18:12,070 --> 00:18:09,120

three meters away from this

400

00:18:14,470 --> 00:18:12,080

camera there is this experiment rack

401  
00:18:15,190 --> 00:18:14,480  
because the um

402  
00:18:25,750 --> 00:18:15,200  
the

403  
00:18:29,430 --> 00:18:25,760  
cancer grow but if we can sever this

404  
00:18:30,310 --> 00:18:29,440  
route of nutrition and then we can um

405  
00:18:32,710 --> 00:18:30,320  
curb

406  
00:18:35,110 --> 00:18:32,720  
the growth of cancer cells and so we are

407  
00:18:37,270 --> 00:18:35,120  
trying to create such crystals for this

408  
00:18:39,110 --> 00:18:37,280  
purpose and in

409  
00:18:43,590 --> 00:18:39,120  
september this will be brought back to

410  
00:18:45,750 --> 00:18:43,600  
earth using the soyuz russian space

411  
00:18:48,070 --> 00:18:45,760  
spaceship and we hope that this will

412  
00:18:51,190 --> 00:18:48,080  
lead to the development research of new

413  
00:18:53,830 --> 00:18:51,200

mensa and we believe and that this can

414

00:18:55,430 --> 00:18:53,840

contribute to bettering people's lives

415

00:19:00,390 --> 00:18:55,440

on earth thank you for the very good

416

00:19:04,789 --> 00:19:02,870

thank you very much the wonderful answer

417

00:19:06,230 --> 00:19:04,799

because he's a doctor he was able to

418

00:19:07,510 --> 00:19:06,240

provide such a good

419

00:19:10,549 --> 00:19:07,520

answer

420

00:19:12,310 --> 00:19:10,559

mr takagi i believe that you feel very

421

00:19:14,950 --> 00:19:12,320

tense all the time and i believe that

422

00:19:17,750 --> 00:19:14,960

you need to be very careful in whatever

423

00:19:19,830 --> 00:19:17,760

that you do how do you vent your stress

424

00:19:25,190 --> 00:19:19,840

out do you do any entertaining

425

00:19:28,710 --> 00:19:26,470

well thank you very much for the

426

00:19:30,310 --> 00:19:28,720

question

427

00:19:33,350 --> 00:19:30,320

together with our

428

00:19:35,510 --> 00:19:33,360

my colleagues um i might just relax

429

00:19:36,470 --> 00:19:35,520

by relax by chatting or

430

00:19:38,710 --> 00:19:36,480

i do

431

00:19:42,150 --> 00:19:38,720

enjoy music or i might take some

432

00:19:46,549 --> 00:19:42,160

pictures or photos or videos

433

00:19:51,430 --> 00:19:49,190

from the space we can see this very

434

00:19:54,950 --> 00:19:51,440

special view of the space so during the

435

00:19:57,350 --> 00:19:54,960

week ends we have a little bit more time

436

00:19:58,630 --> 00:19:57,360

for a leisure and i'm very appreciative

437

00:20:00,710 --> 00:19:58,640

of that thank you very much for your

438

00:20:02,310 --> 00:20:00,720

question

439

00:20:06,149 --> 00:20:02,320

thank you very much

440

00:20:08,630 --> 00:20:06,159

um yes so your smell always impresses us

441

00:20:13,430 --> 00:20:08,640

um dr furukai this is seemed to be

442

00:20:17,909 --> 00:20:16,470

and um any um the children from the

443

00:20:19,430 --> 00:20:17,919

earthquake stricken areas do you have

444

00:20:23,590 --> 00:20:19,440

any additional questions that you'd like

445

00:20:30,149 --> 00:20:25,909

well it might be difficult um to be

446

00:20:31,990 --> 00:20:30,159

asked to ask a question i'm dr furukawa

447

00:20:33,590 --> 00:20:32,000

well i think you're halfway through your

448

00:20:36,789 --> 00:20:33,600

mission

449

00:20:37,750 --> 00:20:36,799

in the second half of your stay at iss

450

00:20:39,190 --> 00:20:37,760

um

451  
00:20:41,909 --> 00:20:39,200  
the prime minister would like to send

452  
00:20:43,350 --> 00:20:41,919  
you some words of encouragement

453  
00:20:45,990 --> 00:20:43,360  
yes um

454  
00:20:49,669 --> 00:20:46,000  
well and today the children have joined

455  
00:20:51,750 --> 00:20:49,679  
us in this event and we're very grateful

456  
00:20:57,190 --> 00:20:51,760  
for having this opportunity it was very

457  
00:21:08,630 --> 00:20:58,950  
i

458  
00:21:11,990 --> 00:21:08,640  
of

459  
00:21:15,270 --> 00:21:12,000  
dr noguchi and dr furukawa

460  
00:21:17,669 --> 00:21:15,280  
and i hope that children will want to

461  
00:21:18,630 --> 00:21:17,679  
become an astronaut and go out into

462  
00:21:20,630 --> 00:21:18,640  
space

463  
00:21:23,669 --> 00:21:20,640

in the future i'm looking forward to

464

00:21:26,710 --> 00:21:23,679

this happening um earlier you explained

465

00:21:30,390 --> 00:21:26,720

about the protein crystal

466

00:21:32,149 --> 00:21:30,400

research for curing cancer i hope that

467

00:21:34,950 --> 00:21:32,159

such research will

468

00:21:37,029 --> 00:21:34,960

progress in outer space so that

469

00:21:38,149 --> 00:21:37,039

this will lead the way to scientists and

470

00:21:40,070 --> 00:21:38,159

carrying out

471

00:21:45,110 --> 00:21:40,080

research in outer space i wish you all

472

00:21:51,190 --> 00:21:47,750

now last but not least i would like to

473

00:21:52,710 --> 00:21:51,200

ask all the children to say a word to dr

474

00:21:55,190 --> 00:21:52,720

hurukawa

475

00:22:02,630 --> 00:21:55,200

dr fudokawa i hope that you will keep up

476

00:22:02,640 --> 00:22:19,669

thank you so much

477

00:22:24,830 --> 00:22:22,470

station this is houston acr thank you

478

00:22:28,310 --> 00:22:24,840

that concludes the

479

00:22:29,990 --> 00:22:28,320

event thank you prime minister nato khan

480

00:22:31,669 --> 00:22:30,000

and all participants