1
00:00:05,190 --> 00:00:01,750
station this is houston are you ready

2
00:00:10,230 --> 00:00:08,310
we are ready for the event

3
00:00:12,070 --> 00:00:10,240
betsy ross elementary school this is

4
00:00:23,990 --> 00:00:12,080
mission control houston please call

5
00:00:27,910 --> 00:00:25,910
station this is sarah cordette betsy

6
00:00:32,470 --> 00:00:27,920
ross elementary school teacher here with

7
00:00:58,069 --> 00:00:34,310
we hear you loud and clear how you guys

8
00:01:01,590 --> 00:00:59,590
betsy ross do you guys hear us from the

9
00:01:04,789 --> 00:01:01,600
space station

10
00:01:07,670 --> 00:01:05,670
okay

11
00:01:10,469 --> 00:01:07,680
hello thank you so much for taking our

12
00:01:11,270 --> 00:01:10,479
call we're so excited and so grateful to

13
00:01:12,950 --> 00:01:11,280

have

14
00:01:15,030 --> 00:01:12,960
this amazing opportunity to speak with

15
00:01:17,510 --> 00:01:15,040
you both while on board the space

16
00:01:18,630 --> 00:01:17,520
station we've been following you closely

17
00:01:21,510 --> 00:01:18,640
for

18
00:01:23,429 --> 00:01:21,520
weeks and we're so excited to be able to

19
00:01:25,590 --> 00:01:23,439
speak with you there's an auditorium

20
00:01:27,910 --> 00:01:25,600
full of students here who are really

21
00:01:39,990 --> 00:01:27,920
excited to ask you questions so we're

22
00:01:49,510 --> 00:01:40,870
know

23
00:01:51,590 --> 00:01:49,520
in space like darkness and no oxygen

24
00:01:59,510 --> 00:01:51,600
what is the scariest thing about space

25
00:02:05,190 --> 00:02:02,789
in space and uh the way we work around

26
00:02:07,550 --> 00:02:05,200
that i think uh you know like you said

27
00:02:10,070 --> 00:02:07,560
vacuum there could be a fire or a

28
00:02:12,309 --> 00:02:10,080
depressurization of the modules

29
00:02:13,830 --> 00:02:12,319
and we practice and

30
00:02:15,670 --> 00:02:13,840
what we are going to do in the in

31
00:02:17,990 --> 00:02:15,680
emergency we know our roles and our

32
00:02:20,229 --> 00:02:18,000
responsibilities and i think with that

33
00:02:34,070 --> 00:02:20,239
practice that helps us overcome those

34
00:02:39,430 --> 00:02:36,309
online i've learned how astronauts use a

35
00:02:41,350 --> 00:02:39,440
spacesuit to survive during a spacewalk

36
00:02:47,589 --> 00:02:41,360
if you were to re-engineer the space

37
00:02:50,630 --> 00:02:49,110
very good question

38
00:02:52,550 --> 00:02:50,640

that's a very hard problem we've had

39
00:02:54,949 --> 00:02:52,560
engineers working on new spacesuits for

40
00:02:56,309 --> 00:02:54,959
us for for many many years and

41
00:02:57,750 --> 00:02:56,319
hopefully they're getting close to a

42
00:02:59,750 --> 00:02:57,760
solution i think i would just make it

43
00:03:01,670 --> 00:02:59,760
less bulky it's really big and bulky

44
00:03:03,190 --> 00:03:01,680
right now if there's any way that we

45
00:03:04,790 --> 00:03:03,200
could trim that down and make a little

46
00:03:06,790 --> 00:03:04,800
more sleek and that way we can have more

47
00:03:08,070 --> 00:03:06,800
dexterity in our hands

48
00:03:17,509 --> 00:03:08,080
i think it would be better but that's a

49
00:03:23,350 --> 00:03:20,309
soon solve be the first two-time female

50
00:03:25,509 --> 00:03:23,360
commander of the space station what do

51
00:03:30,149 --> 00:03:25,519
you think needs to happen to get more

52
00:03:34,149 --> 00:03:31,830
well you know what i think we need more

53
00:03:37,110 --> 00:03:34,159
young ladies like yourself studying in

54
00:03:39,589 --> 00:03:37,120
science math and engineering and really

55
00:03:42,070 --> 00:03:39,599
actually pursuing goals there knowing

56
00:03:44,789 --> 00:03:42,080
that women can be in space

57
00:03:47,830 --> 00:03:44,799
and be astronauts and be engineers and

58
00:03:50,630 --> 00:03:47,840
tech and technicians that can really

59
00:03:52,229 --> 00:03:50,640
solve pr interesting technical problems

60
00:03:54,070 --> 00:03:52,239
for nasa so

61
00:04:00,149 --> 00:03:54,080
you you need to study and get out there

62
00:04:04,550 --> 00:04:01,830
on research

63
00:04:07,350 --> 00:04:04,560

i know astronauts get some medical

64
00:04:10,070 --> 00:04:07,360
training but i am curious what happens

65
00:04:16,390 --> 00:04:10,080
when there is a medical emergency that

66
00:04:19,110 --> 00:04:17,749
good question we're handled we're

67
00:04:20,710 --> 00:04:19,120
equipped to handle a lot of the

68
00:04:22,790 --> 00:04:20,720
situations that may come about we all

69
00:04:24,310 --> 00:04:22,800
get trained and medical training

70
00:04:26,230 --> 00:04:24,320
we're crew medical officers is what they

71
00:04:27,590 --> 00:04:26,240
call us so we go through that training

72
00:04:29,189 --> 00:04:27,600
but if there's something we can't handle

73
00:04:30,870 --> 00:04:29,199
we always have mission control to talk

74
00:04:32,629 --> 00:04:30,880
to and there's an actual doctor or we

75
00:04:34,469 --> 00:04:32,639
call them flight surgeons that will be

76
00:04:41,430 --> 00:04:34,479
there talking us through a procedure if

77
00:04:47,430 --> 00:04:44,390
i read that scientists discover planets

78
00:04:49,830 --> 00:04:47,440
that may be able to have life how did

79
00:04:53,030 --> 00:04:49,840
they look around other stars outside our

80
00:04:57,990 --> 00:04:53,040
solar system was the iss involved or

81
00:05:02,870 --> 00:04:59,990
well that is a very good question for

82
00:05:05,510 --> 00:05:02,880
someone your age i'm very impressed um

83
00:05:07,909 --> 00:05:05,520
but the kepler space telescope is one

84
00:05:10,790 --> 00:05:07,919
space telescope that looks in particular

85
00:05:13,029 --> 00:05:10,800
for uh planets other planets

86
00:05:14,950 --> 00:05:13,039
and life but what the

87
00:05:16,790 --> 00:05:14,960
and the hubble space telescope can also

88
00:05:19,670 --> 00:05:16,800

look for other planets

89
00:05:21,590 --> 00:05:19,680
um it's interesting that you know we we

90
00:05:23,110 --> 00:05:21,600
think about light and

91
00:05:25,110 --> 00:05:23,120
looking and seeing something through a

92
00:05:27,510 --> 00:05:25,120
telescope that only we can see but there

93
00:05:29,430 --> 00:05:27,520
are other things that are out there that

94
00:05:30,790 --> 00:05:29,440
the scientists can look at which is like

95
00:05:32,230 --> 00:05:30,800
gamma radiation

96
00:05:34,390 --> 00:05:32,240
[Music]

97
00:05:36,230 --> 00:05:34,400
infrared radiation

98
00:05:38,550 --> 00:05:36,240
other things that can tell them and give

99
00:05:45,110 --> 00:05:38,560
them clues about where planets might be

100
00:05:50,790 --> 00:05:46,950
i read on the website that there are

101
00:05:53,270 --> 00:05:50,800
about 150 foods on board the iss how do

102
00:05:58,629 --> 00:05:53,280
you get all your nutrients from such few

103
00:06:02,309 --> 00:06:00,150
great question food is always an

104
00:06:04,070 --> 00:06:02,319
important part of everybody's world i

105
00:06:06,469 --> 00:06:04,080
guess and same with us peggy's showing

106
00:06:08,629 --> 00:06:06,479
you a few of our choices here with a

107
00:06:10,390 --> 00:06:08,639
drink bag a pouch of food as well as a

108
00:06:13,189 --> 00:06:10,400
dehydrated food

109
00:06:14,790 --> 00:06:13,199
we do have 150 or so i think and that is

110
00:06:16,390 --> 00:06:14,800
actually very good it does give us a lot

111
00:06:18,469 --> 00:06:16,400
of variety so that we don't get bored

112
00:06:19,909 --> 00:06:18,479
with the same food over and over and

113
00:06:22,150 --> 00:06:19,919

we're lucky enough to have russian

114
00:06:24,309 --> 00:06:22,160
crewmates as well as french astronauts

115
00:06:26,230 --> 00:06:24,319
on this mission so we get to enjoy

116
00:06:28,629 --> 00:06:26,240
russian food as well as french food

117
00:06:30,309 --> 00:06:28,639
sometimes so it keeps the the variety

118
00:06:31,909 --> 00:06:30,319
nice and it doesn't let us get bored

119
00:06:33,670 --> 00:06:31,919
with what we're having but it's very

120
00:06:35,990 --> 00:06:33,680
important for us to eat enough and get

121
00:06:37,590 --> 00:06:36,000
the nutritional value that you mentioned

122
00:06:44,550 --> 00:06:37,600
so that our bones and our muscles don't

123
00:06:48,629 --> 00:06:46,870
i learned the iss is a place where

124
00:06:50,710 --> 00:06:48,639
astronauts from many different countries

125
00:06:54,950 --> 00:06:50,720
go how do all how do you all get along

126
00:06:58,870 --> 00:06:57,029
that's a great question this is the

127
00:07:01,350 --> 00:06:58,880
international space station and we have

128
00:07:03,029 --> 00:07:01,360
15 different countries represented from

129
00:07:04,629 --> 00:07:03,039
all over the world

130
00:07:06,390 --> 00:07:04,639
and we have astronauts from all those

131
00:07:09,350 --> 00:07:06,400
different countries here at one time or

132
00:07:12,309 --> 00:07:09,360
another right now we have three russians

133
00:07:13,830 --> 00:07:12,319
on board two americans and one french

134
00:07:17,990 --> 00:07:13,840
astronaut

135
00:07:19,430 --> 00:07:18,000
in general we speak a lot of english uh

136
00:07:21,670 --> 00:07:19,440
but it kind of depends on what we're

137
00:07:24,070 --> 00:07:21,680
working on if we're working in the soyuz

138
00:07:26,390 --> 00:07:24,080

for instance the soyuz spacecraft that

139
00:07:27,909 --> 00:07:26,400
brings us up and takes us home from the

140
00:07:29,909 --> 00:07:27,919
space station

141
00:07:31,909 --> 00:07:29,919
it's primarily russian because it's a

142
00:07:33,670 --> 00:07:31,919
russian-built vehicle and all the

143
00:07:34,629 --> 00:07:33,680
procedures and the displays are in

144
00:07:36,790 --> 00:07:34,639
russian

145
00:07:38,790 --> 00:07:36,800
so in general i would say mostly in

146
00:07:40,550 --> 00:07:38,800
english

147
00:07:48,950 --> 00:07:40,560
which is lucky for me because learning

148
00:07:54,309 --> 00:07:51,830
you are the commander of the iss however

149
00:07:58,309 --> 00:07:54,319
what happens if a crime is committed on

150
00:08:01,990 --> 00:08:00,230
well we try not to let that happen uh it

151
00:08:04,469 --> 00:08:02,000
hasn't happened certainly in our in my

152
00:08:06,070 --> 00:08:04,479
six months up here um

153
00:08:07,990 --> 00:08:06,080
so you know we we obviously work

154
00:08:09,350 --> 00:08:08,000
together as teams before we come up here

155
00:08:11,189 --> 00:08:09,360
to make sure we don't have any issues

156
00:08:12,790 --> 00:08:11,199
with our you know personality issues or

157
00:08:14,629 --> 00:08:12,800
things like that we have to work

158
00:08:17,350 --> 00:08:14,639
together as a team we're on a remote

159
00:08:19,350 --> 00:08:17,360
expedition so we don't have any room for

160
00:08:21,270 --> 00:08:19,360
people doing things kind of on their own

161
00:08:22,790 --> 00:08:21,280
or against the rules or against the law

162
00:08:24,550 --> 00:08:22,800
so we've been very fortunate on this

163
00:08:26,230 --> 00:08:24,560

mission to have great crewmates and i

164
00:08:35,670 --> 00:08:26,240
have not had to worry about putting

165
00:08:45,190 --> 00:08:38,149
the country shares the research data and

166
00:08:49,030 --> 00:08:47,190
yes actually a lot of the countries are

167
00:08:51,509 --> 00:08:49,040
working together on different types of

168
00:08:54,310 --> 00:08:51,519
research we have for instance the alpha

169
00:08:56,550 --> 00:08:54,320
magnetic spectrometer which has i think

170
00:08:58,630 --> 00:08:56,560
on order of 15 countries from all over

171
00:09:00,310 --> 00:08:58,640
the world

172
00:09:02,230 --> 00:09:00,320
and we're doing for instance another

173
00:09:04,790 --> 00:09:02,240
experiment called fluid shifts it's a

174
00:09:08,949 --> 00:09:04,800
joint us and russian experiment

175
00:09:11,430 --> 00:09:08,959
another investigation uh neuro

176
00:09:13,430 --> 00:09:11,440
looking at neuro vestibular changes

177
00:09:16,230 --> 00:09:13,440
that's done by u.s and european

178
00:09:19,030 --> 00:09:16,240
investigators so yes we share all our

179
00:09:20,630 --> 00:09:19,040
data and research and we encourage all

180
00:09:22,389 --> 00:09:20,640
the scientists to publish so that

181
00:09:30,949 --> 00:09:22,399
everyone knows the results of our

182
00:09:34,310 --> 00:09:32,710
i know that astronauts have a super busy

183
00:09:35,190 --> 00:09:34,320
schedule that's scheduled on five

184
00:09:36,870 --> 00:09:35,200
minutes

185
00:09:46,710 --> 00:09:36,880
how do you manage all the stuff you do

186
00:09:51,030 --> 00:09:49,030
well we we kind of look at our schedule

187
00:09:52,630 --> 00:09:51,040
the night before typically so we have an

188
00:09:54,150 --> 00:09:52,640

idea what's going to happen now

189
00:09:55,829 --> 00:09:54,160
sometimes overnight the schedule will

190
00:09:57,590 --> 00:09:55,839
change but usually it's not drastically

191
00:09:59,269 --> 00:09:57,600
so we have an idea that way we can get

192
00:10:01,190 --> 00:09:59,279
an organize in our mind sometimes we'll

193
00:10:03,509 --> 00:10:01,200
even get the equipment out ahead of time

194
00:10:05,350 --> 00:10:03,519
to just make us more efficient a lot of

195
00:10:06,710 --> 00:10:05,360
times during the day we're not working

196
00:10:08,230 --> 00:10:06,720
together we're working on different

197
00:10:10,310 --> 00:10:08,240
projects or different maintenance on the

198
00:10:11,670 --> 00:10:10,320
space station but but if we have free

199
00:10:12,870 --> 00:10:11,680
time we'll go help each other out and

200
00:10:14,550 --> 00:10:12,880
that obviously

201
00:10:16,150 --> 00:10:14,560
creates a great bond between our crew

202
00:10:17,990 --> 00:10:16,160
and just helps the whole efficiency of

203
00:10:19,910 --> 00:10:18,000
the space station so even though we are

204
00:10:22,069 --> 00:10:19,920
scheduled down you know like you said

205
00:10:23,750 --> 00:10:22,079
about five minutes every five minutes uh

206
00:10:25,509 --> 00:10:23,760
we usually have plenty of time at the

207
00:10:27,910 --> 00:10:25,519
end of the day because we work very well

208
00:10:29,269 --> 00:10:27,920
together and uh and if all the equipment

209
00:10:39,910 --> 00:10:29,279
behaves then we'll usually be done a

210
00:10:48,069 --> 00:10:42,230
what is the best thing you have done in

211
00:10:51,990 --> 00:10:49,829
well i think probably my biggest

212
00:10:54,710 --> 00:10:52,000
contribution is being able to help all

213
00:10:57,910 --> 00:10:54,720

the different scientists uh on earth

214
00:11:00,870 --> 00:10:57,920
there are over 270 investigations going

215
00:11:03,110 --> 00:11:00,880
on during our increment and being able

216
00:11:05,750 --> 00:11:03,120
to assist in as many of those as

217
00:11:08,150 --> 00:11:05,760
possible is really important to me but

218
00:11:10,630 --> 00:11:08,160
of course personally i like i like doing

219
00:11:13,190 --> 00:11:10,640
the hands-on research particularly

220
00:11:15,590 --> 00:11:13,200
involving biomedical or

221
00:11:17,509 --> 00:11:15,600
biochemical sciences those to me are the

222
00:11:19,750 --> 00:11:17,519
most interesting because that's where my

223
00:11:21,750 --> 00:11:19,760
background and my training are in but i

224
00:11:30,310 --> 00:11:21,760
really enjoy doing all of the different

225
00:11:35,269 --> 00:11:32,630
i'm wondering how does it feel when you

226
00:11:40,230 --> 00:11:35,279
land back on earth after being in space

227
00:11:44,150 --> 00:11:42,310
well i'm about to find out one week from

228
00:11:46,870 --> 00:11:44,160
today because me and my crew head back

229
00:11:49,670 --> 00:11:46,880
to earth on monday next week so uh your

230
00:11:51,350 --> 00:11:49,680
body is is has to adjust to gravity

231
00:11:52,949 --> 00:11:51,360
again because we haven't had it in in

232
00:11:55,190 --> 00:11:52,959
about six months so it's going to be an

233
00:11:56,710 --> 00:11:55,200
interesting feeling i think we feel a

234
00:11:59,030 --> 00:11:56,720
little dizzy in general just because

235
00:12:00,870 --> 00:11:59,040
your your sense of balance is kind of

236
00:12:02,470 --> 00:12:00,880
off because it doesn't know where it is

237
00:12:04,710 --> 00:12:02,480
for a while so it takes a few days to

238
00:12:06,870 --> 00:12:04,720

figure that out and as peggy's showing

239
00:12:08,470 --> 00:12:06,880
you here we can do this in space but i

240
00:12:10,389 --> 00:12:08,480
won't be able to do that here in a week

241
00:12:12,870 --> 00:12:10,399
when i get back to earth but in general

242
00:12:13,750 --> 00:12:12,880
our bodies adapt within a week or so i

243
00:12:15,030 --> 00:12:13,760
think

244
00:12:16,550 --> 00:12:15,040
where you're feeling pretty good and

245
00:12:18,710 --> 00:12:16,560
then you just work on getting stronger

246
00:12:20,629 --> 00:12:18,720
and stronger by working out in the gym

247
00:12:22,230 --> 00:12:20,639
and getting your bones and muscles back

248
00:12:29,829 --> 00:12:22,240
to where they used to be

249
00:12:34,550 --> 00:12:31,590
i am aware that there are many things

250
00:12:36,470 --> 00:12:34,560
floating in space but how does the iss

251
00:12:41,670 --> 00:12:36,480
detect as something is approaching the

252
00:12:46,069 --> 00:12:43,430
actually on board the space station we

253
00:12:48,470 --> 00:12:46,079
don't detect it but we have experts on

254
00:12:50,710 --> 00:12:48,480
the ground that are tracking all the big

255
00:12:53,910 --> 00:12:50,720
things that might be floating around out

256
00:12:56,389 --> 00:12:53,920
in space any space debris and

257
00:12:59,590 --> 00:12:56,399
if we need to we can do a maneuver of

258
00:13:01,030 --> 00:12:59,600
the space station that requires fuel uh

259
00:13:03,269 --> 00:13:01,040
so it's not something that we do

260
00:13:05,910 --> 00:13:03,279
routinely but if we if there's a risk

261
00:13:07,990 --> 00:13:05,920
that we might be hit by something

262
00:13:11,269 --> 00:13:08,000
then we will either increase our

263
00:13:13,350 --> 00:13:11,279

altitude or decrease our altitude

264
00:13:24,949 --> 00:13:13,360
to try and miss whatever object is out

265
00:13:29,670 --> 00:13:27,430
through research i found that the iss

266
00:13:32,389 --> 00:13:29,680
has conducted studies and research about

267
00:13:34,310 --> 00:13:32,399
germs however i am curious about what

268
00:13:37,190 --> 00:13:34,320
happens if an astronaut becomes sick in

269
00:13:42,470 --> 00:13:37,200
space how do the astronauts onboard iss

270
00:13:46,150 --> 00:13:44,389
that's a great question and before we

271
00:13:48,150 --> 00:13:46,160
launch we go into a thing called

272
00:13:49,829 --> 00:13:48,160
quarantine for about two weeks and

273
00:13:51,670 --> 00:13:49,839
that's to keep us away from the general

274
00:13:53,829 --> 00:13:51,680
public so that we don't bring all these

275
00:13:55,750 --> 00:13:53,839
germs potentially up into space in this

276
00:13:57,189 --> 00:13:55,760
kind of small environment because if

277
00:13:58,870 --> 00:13:57,199
somebody does get sick up here it'll

278
00:13:59,990 --> 00:13:58,880
spread very quickly throughout the rest

279
00:14:01,350 --> 00:14:00,000
of the crew

280
00:14:02,949 --> 00:14:01,360
we'll knock on wood we've been very

281
00:14:04,870 --> 00:14:02,959
lucky in the six months or so i've been

282
00:14:06,470 --> 00:14:04,880
here and everybody's been feeling great

283
00:14:08,550 --> 00:14:06,480
we do take precautions like you were

284
00:14:11,030 --> 00:14:08,560
asking about on keeping our hands clean

285
00:14:13,189 --> 00:14:11,040
and keeping our utensils clean um and

286
00:14:15,269 --> 00:14:13,199
our bodies clean in general so that we

287
00:14:24,710 --> 00:14:15,279
don't spread you know unnecessary germs

288
00:14:30,150 --> 00:14:27,590

why do astronauts have to take turns

289
00:14:32,310 --> 00:14:30,160
living on space station why can't

290
00:14:37,350 --> 00:14:32,320
astronauts live on board the space

291
00:14:41,030 --> 00:14:39,189
well we could live on board the space

292
00:14:42,629 --> 00:14:41,040
station longer but most of us actually

293
00:14:45,030 --> 00:14:42,639
want to get home and see our families

294
00:14:48,150 --> 00:14:45,040
eventually so

295
00:14:49,829 --> 00:14:48,160
we do we do want to just get home and

296
00:14:52,389 --> 00:14:49,839
and we want to share the experience with

297
00:14:54,949 --> 00:14:52,399
as many people as possible so it's only

298
00:14:56,470 --> 00:14:54,959
fair that we should take turns and

299
00:14:57,990 --> 00:14:56,480
return home

300
00:14:59,670 --> 00:14:58,000
but part of the reason that we're liv

301
00:15:01,829 --> 00:14:59,680
we're living up here for six month

302
00:15:04,069 --> 00:15:01,839
periods of time or a little more is to

303
00:15:05,829 --> 00:15:04,079
try and understand what how our bodies

304
00:15:07,829 --> 00:15:05,839
react to being in space this long

305
00:15:09,910 --> 00:15:07,839
because when we go to mars maybe you

306
00:15:12,069 --> 00:15:09,920
guys in the future when you're traveling

307
00:15:14,790 --> 00:15:12,079
to mars the research that we're doing on

308
00:15:16,949 --> 00:15:14,800
our bodies now will help us determine

309
00:15:21,910 --> 00:15:16,959
how to make you safer on your trip to

310
00:15:29,749 --> 00:15:23,990
are you working on anything top secret

311
00:15:33,430 --> 00:15:31,350
that's a good question a lot of people

312
00:15:35,110 --> 00:15:33,440
think that but no everything all these

313
00:15:36,550 --> 00:15:35,120

investigations and experiments we're

314
00:15:37,829 --> 00:15:36,560
working on that peggy was talking about

315
00:15:39,350 --> 00:15:37,839
earlier

316
00:15:41,110 --> 00:15:39,360
the scientists get all the data we're

317
00:15:42,310 --> 00:15:41,120
not keeping anything from them or from

318
00:15:44,069 --> 00:15:42,320
anybody else

319
00:15:45,910 --> 00:15:44,079
there was a day you know where there

320
00:15:47,749 --> 00:15:45,920
were some somewhat secret missions back

321
00:15:49,590 --> 00:15:47,759
in the early days of the space program

322
00:15:51,030 --> 00:15:49,600
but not anymore we like to share our

323
00:15:58,470 --> 00:15:51,040
data so that everybody on earth can

324
00:16:06,949 --> 00:16:01,590
how do astronauts play in space what do

325
00:16:11,670 --> 00:16:09,430
actually being able to take advantage of

326
00:16:12,949 --> 00:16:11,680
just being in zero gravity is a lot of

327
00:16:15,030 --> 00:16:12,959
fun and so

328
00:16:17,829 --> 00:16:15,040
sometimes we do different

329
00:16:21,110 --> 00:16:17,839
tricks in space uh actually even with

330
00:16:22,949 --> 00:16:21,120
food or just hanging out we will go in

331
00:16:25,910 --> 00:16:22,959
all different directions because it's

332
00:16:28,949 --> 00:16:25,920
just easy to do so just being here is

333
00:16:30,310 --> 00:16:28,959
actually a lot of fun uh experience oh

334
00:16:31,590 --> 00:16:30,320
and look we got another crew member

335
00:16:35,110 --> 00:16:31,600
coming through

336
00:16:37,910 --> 00:16:35,120
watch out so everybody has fun up here

337
00:16:39,509 --> 00:16:37,920
just being in zero gravity

338
00:16:42,069 --> 00:16:39,519

we'd love to look out the window and

339
00:16:43,430 --> 00:16:42,079
take pictures of the beautiful earth

340
00:16:46,389 --> 00:16:43,440
below

341
00:16:48,870 --> 00:16:46,399
that's a lot of entertainment for us

342
00:16:51,269 --> 00:16:48,880
because it's just so unique it's such a

343
00:16:53,509 --> 00:16:51,279
novel part of what we're doing up here

344
00:17:02,470 --> 00:16:53,519
so that's probably one of the

345
00:17:06,789 --> 00:17:04,309
based on research i know that long

346
00:17:09,350 --> 00:17:06,799
duration space missions are causing some

347
00:17:11,029 --> 00:17:09,360
eye problems for the astronauts like the

348
00:17:13,270 --> 00:17:11,039
back of their ice bladden what do

349
00:17:16,069 --> 00:17:13,280
astronauts support the iss do when this

350
00:17:17,990 --> 00:17:16,079
happens and how do you handle other base

351
00:17:23,270 --> 00:17:18,000
travel side effects when you return to

352
00:17:26,309 --> 00:17:24,789
yeah there have been some cases you're

353
00:17:28,309 --> 00:17:26,319
right um thank goodness it's the

354
00:17:30,310 --> 00:17:28,319
minority of astronauts and nobody in our

355
00:17:31,909 --> 00:17:30,320
crew has had these issues yet

356
00:17:33,909 --> 00:17:31,919
but there you know we do we do do

357
00:17:35,830 --> 00:17:33,919
medical exams probably

358
00:17:37,669 --> 00:17:35,840
every month or every month and a half on

359
00:17:40,549 --> 00:17:37,679
our eyes to make sure that nothing's

360
00:17:42,470 --> 00:17:40,559
happening crazy um we do some uh

361
00:17:44,549 --> 00:17:42,480
ultrasound images of our eyes just like

362
00:17:45,990 --> 00:17:44,559
a doctor would do on the ground so we

363
00:17:47,669 --> 00:17:46,000

get to do that on each other and help

364
00:17:49,350 --> 00:17:47,679
each other out and all that data gets

365
00:17:51,190 --> 00:17:49,360
into the ground for our doctors to

366
00:17:52,470 --> 00:17:51,200
analyze to make sure everything in our

367
00:17:54,390 --> 00:17:52,480
eyes look great

368
00:17:56,150 --> 00:17:54,400
we and potentially maybe we'll have some

369
00:17:57,430 --> 00:17:56,160
issues when we get back on the ground on

370
00:17:58,789 --> 00:17:57,440
earth as well

371
00:18:00,630 --> 00:17:58,799
and we have plenty of doctors that make

372
00:18:02,230 --> 00:18:00,640
sure they're there to help us get

373
00:18:03,669 --> 00:18:02,240
through whatever issues they are the

374
00:18:06,310 --> 00:18:03,679
good part about the eye issues you've

375
00:18:07,750 --> 00:18:06,320
heard about is they do resolve once the

376
00:18:09,110 --> 00:18:07,760
crew member gets back on the ground

377
00:18:14,470 --> 00:18:09,120
after several months so that's a good

378
00:18:21,110 --> 00:18:17,590
on my google expedition i noticed that

379
00:18:23,590 --> 00:18:21,120
there are many hidden pieces and buttons

380
00:18:26,310 --> 00:18:23,600
that seems confusing what is the most

381
00:18:39,270 --> 00:18:26,320
challenging thing about building a space

382
00:18:45,750 --> 00:18:41,110
i think probably the most challenging

383
00:18:50,950 --> 00:18:47,990
is probably just being away from family

384
00:18:53,029 --> 00:18:50,960
and friends for a long period of time

385
00:18:55,190 --> 00:18:53,039
luckily we can talk to them on an

386
00:18:57,110 --> 00:18:55,200
internet protocol phone so

387
00:18:59,110 --> 00:18:57,120
we're able to be up here for several

388
00:19:00,630 --> 00:18:59,120

months without feeling too isolated from

389
00:19:08,549 --> 00:19:00,640
them but i think that's probably the

390
00:19:11,510 --> 00:19:09,430
wow

391
00:19:13,669 --> 00:19:11,520
what a great experience this has been we

392
00:19:15,270 --> 00:19:13,679
want to thank shane kimbrough and peggy

393
00:19:17,430 --> 00:19:15,280
whitson for taking the time to talk with

394
00:19:19,510 --> 00:19:17,440
ross elementary we also want to

395
00:19:21,750 --> 00:19:19,520
congratulate shane and peggy on their

396
00:19:23,750 --> 00:19:21,760
recent extravehicular activity last

397
00:19:25,750 --> 00:19:23,760
thursday march 30th

398
00:19:28,150 --> 00:19:25,760
in addition we would like to acknowledge

399
00:19:30,150 --> 00:19:28,160
all of the work of expedition 50 and

400
00:19:33,590 --> 00:19:30,160
commander shane kimbrough who will come

401
00:19:35,750 --> 00:19:33,600
back to earth on april 10th finally

402
00:19:38,150 --> 00:19:35,760
congratulations to peggy whitson on soon

403
00:19:39,909 --> 00:19:38,160
becoming the first female two-time

404
00:19:41,350 --> 00:19:39,919
commander of the international space

405
00:19:43,430 --> 00:19:41,360
station and for

406
00:19:46,230 --> 00:19:43,440
soon breaking the record for the most

407
00:19:48,230 --> 00:19:46,240
time in space on april 24th a big thank

408
00:19:50,390 --> 00:19:48,240
you to all of us here at betsy ross

409
00:20:05,830 --> 00:19:50,400
elementary school in anaheim elementary

410
00:20:11,669 --> 00:20:08,149
station this is houston acr that

411
00:20:15,510 --> 00:20:13,430
thank you to all participants and guests

412
00:20:17,510 --> 00:20:15,520
from betsy ross elementary school