1
00:00:04,630 --> 00:00:02,869
atlantis iss this is houston are you

2
00:00:18,390 --> 00:00:04,640
ready for the event on space to ground

3
00:00:23,189 --> 00:00:21,269
atlantis iss this is houston acr please

4
00:00:33,830 --> 00:00:23,199
stand by for the nasa summer of

5
00:00:38,470 --> 00:00:36,150
our question is

6
00:00:43,990 --> 00:00:38,480
how do you feel of this being your last

7
00:00:47,750 --> 00:00:45,910
well thank you for that great question

8
00:00:48,869 --> 00:00:47,760
from burbank middle school

9
00:00:56,069 --> 00:00:48,879
uh

10
00:00:57,910 --> 00:00:56,079
can't fly in space again there's gonna

11
00:00:59,990 --> 00:00:57,920
be lots of opportunities we're still

12
00:01:02,150 --> 00:01:00,000
flying folks aboard russian soyuz

13
00:01:03,270 --> 00:01:02,160

rockets to the space station

14
00:01:05,590 --> 00:01:03,280
and

15
00:01:08,070 --> 00:01:05,600
we've got some commercial companies that

16
00:01:09,910 --> 00:01:08,080
are building rockets now so maybe a ride

17
00:01:13,670 --> 00:01:09,920
on one of their rockets in the near

18
00:01:15,350 --> 00:01:13,680
future and then nasa in the process of

19
00:01:18,149 --> 00:01:15,360
building a new rocket that will go

20
00:01:20,390 --> 00:01:18,159
outside of earth's orbit perhaps to the

21
00:01:22,149 --> 00:01:20,400
moon or mars so going to be a lot of

22
00:01:25,590 --> 00:01:22,159
great opportunities to

23
00:01:31,270 --> 00:01:25,600
fly in space for the foreseeable future

24
00:01:35,270 --> 00:01:33,270
hi my name is maurice

25
00:01:36,069 --> 00:01:35,280
i go to galveston early college high

26
00:01:43,109 --> 00:01:36,079
school

27
00:01:46,789 --> 00:01:45,190
well thanks maurice actually spacesuits

28
00:01:49,030 --> 00:01:46,799
aren't itchy even the ones when we go

29
00:01:51,510 --> 00:01:49,040
out and do a space walk we have a nice

30
00:01:53,429 --> 00:01:51,520
smooth undergarment we wear there and it

31
00:01:55,270 --> 00:01:53,439
it's not itchy at all and

32
00:01:57,190 --> 00:01:55,280
it it also has water tubes in it that

33
00:01:59,030 --> 00:01:57,200
can that go up and down and keep you

34
00:02:00,230 --> 00:01:59,040
cool because obviously you get a little

35
00:02:02,310 --> 00:02:00,240
bit hot when you're out there working

36
00:02:04,069 --> 00:02:02,320
real hard but they're pretty comfortable

37
00:02:07,030 --> 00:02:04,079
and they got to be because when we go on

38
00:02:08,630 --> 00:02:07,040

a spacewalk we can wear them for about

39
00:02:09,830 --> 00:02:08,640
six and a half seven hours for the space

40
00:02:11,670 --> 00:02:09,840
walk and then a couple hours getting

41
00:02:13,350 --> 00:02:11,680
ready so it's a long day inside that

42
00:02:19,670 --> 00:02:13,360
space suit you certainly wouldn't want

43
00:02:23,190 --> 00:02:20,830
hi my name

44
00:02:25,510 --> 00:02:23,200
is i'm from las cruces new mexico and i

45
00:02:28,309 --> 00:02:25,520
was wondering how you guys replace the

46
00:02:29,830 --> 00:02:28,319
air that gets lost in the air locks from

47
00:02:36,470 --> 00:02:29,840
when you're moving in and out and get

48
00:02:39,670 --> 00:02:38,150
well race that is a very important issue

49
00:02:41,270 --> 00:02:39,680
when we do a space walk we don't want to

50
00:02:43,589 --> 00:02:41,280
let too much air get outside of the

51
00:02:46,630 --> 00:02:43,599
vehicle so what we do is uh before we go

52
00:02:48,949 --> 00:02:46,640
out and do a spacewalk we uh we go into

53
00:02:50,150 --> 00:02:48,959
a small room called an airlock and once

54
00:02:51,830 --> 00:02:50,160
we get into the airlock when you're

55
00:02:53,830 --> 00:02:51,840
inside our spacesuits we close the door

56
00:02:56,070 --> 00:02:53,840
behind us and then we let the air just

57
00:02:58,070 --> 00:02:56,080
out of that small room and then once

58
00:03:00,070 --> 00:02:58,080
that room small room is at vacuum then

59
00:03:02,149 --> 00:03:00,080
we can go out a different door and then

60
00:03:04,869 --> 00:03:02,159
we can go into our space walk then but

61
00:03:06,869 --> 00:03:04,879
the uh when we do come back in we do the

62
00:03:08,229 --> 00:03:06,879
process in reverse and then the question

63
00:03:09,830 --> 00:03:08,239

is where do we get the extra air form

64
00:03:11,509 --> 00:03:09,840
that we lost we don't lose too much but

65
00:03:13,270 --> 00:03:11,519
when we do lose a little bit of air we

66
00:03:25,750 --> 00:03:13,280
bring some up with our resupply

67
00:03:34,149 --> 00:03:28,470
where should we go next the moon and

68
00:03:40,470 --> 00:03:37,670
thanks alexis and the 2011 robo camp

69
00:03:41,990 --> 00:03:40,480
that's a great question

70
00:03:44,309 --> 00:03:42,000
i think

71
00:03:45,350 --> 00:03:44,319
me personally i would love to go to mars

72
00:03:47,589 --> 00:03:45,360
but

73
00:03:49,990 --> 00:03:47,599
an asteroid or the moon would be very

74
00:03:50,869 --> 00:03:50,000
exciting as well because we've uh we've

75
00:03:52,309 --> 00:03:50,879
done

76
00:03:54,949 --> 00:03:52,319
some exploration of the moon if you

77
00:03:57,270 --> 00:03:54,959
remember way back in the 60s and 70s but

78
00:03:59,110 --> 00:03:57,280
uh we've got a long way to go there

79
00:04:00,550 --> 00:03:59,120
but uh if i had a choice i would love to

80
00:04:05,270 --> 00:04:00,560
go to mars

81
00:04:09,990 --> 00:04:08,070
hi my name is

82
00:04:12,390 --> 00:04:10,000
i go to parker but i came here to hello

83
00:04:18,949 --> 00:04:12,400
morgan my question is

84
00:04:23,430 --> 00:04:21,110
well actually there's uh small bits of

85
00:04:24,790 --> 00:04:23,440
old rocket parts or satellites and stuff

86
00:04:27,430 --> 00:04:24,800
like that so there are very very many

87
00:04:29,510 --> 00:04:27,440
there's probably over a thousand and uh

88
00:04:31,189 --> 00:04:29,520

what uh what we do is if a big piece

89
00:04:32,870 --> 00:04:31,199
comes toward the space station we will

90
00:04:34,390 --> 00:04:32,880
maneuver the space station change the

91
00:04:36,310 --> 00:04:34,400
orbit a little bit so that the piece of

92
00:04:38,469 --> 00:04:36,320
debris won't hit us now there's also

93
00:04:40,550 --> 00:04:38,479
little tiny specks and those we can't

94
00:04:41,909 --> 00:04:40,560
really see so if they hit us we have

95
00:04:51,990 --> 00:04:41,919
shielding on the outside so it shouldn't

96
00:05:01,830 --> 00:04:54,550
our question is what's going to happen

97
00:05:04,710 --> 00:05:03,029
actually

98
00:05:06,870 --> 00:05:04,720
thanks for that question nasa will be

99
00:05:10,469 --> 00:05:06,880
around for a long time to come you know

100
00:05:13,189 --> 00:05:10,479
we will finish up the shuttle uh program

101
00:05:15,510 --> 00:05:13,199
uh here in just a few days and then

102
00:05:18,710 --> 00:05:15,520
we embark on our next adventure which is

103
00:05:22,390 --> 00:05:18,720
going beyond the orbit of the earth to a

104
00:05:24,790 --> 00:05:22,400
mars or an asteroid or to the moon

105
00:05:26,150 --> 00:05:24,800
so we've got plenty to do we're going to

106
00:05:27,909 --> 00:05:26,160
continue to fly up here on the

107
00:05:30,469 --> 00:05:27,919
international space station for at least

108
00:05:32,870 --> 00:05:30,479
the next 10 years or so so

109
00:05:36,830 --> 00:05:32,880
we'll have crews always up here

110
00:05:42,070 --> 00:05:39,590
question hi my name is austin wright at

111
00:05:44,390 --> 00:05:42,080
weiss middle school in galveston texas

112
00:05:49,350 --> 00:05:44,400
my question is what kinds of food do you

113
00:05:53,110 --> 00:05:51,350

well that's a very good question austin

114
00:05:55,270 --> 00:05:53,120
just so happens you caught us just

115
00:05:57,749 --> 00:05:55,280
before lunch so we can show you a little

116
00:05:59,110 --> 00:05:57,759
bit of what we have here in space

117
00:06:01,110 --> 00:05:59,120
you can eat lots of different kinds of

118
00:06:04,629 --> 00:06:01,120
food some of it is dehydrated for

119
00:06:06,950 --> 00:06:04,639
instance this is actually some spaghetti

120
00:06:08,710 --> 00:06:06,960
and you can also have some stuff that

121
00:06:10,469 --> 00:06:08,720
comes in pouches that's kind of just

122
00:06:12,790 --> 00:06:10,479
basically ready to eat

123
00:06:14,230 --> 00:06:12,800
so you can have

124
00:06:18,469 --> 00:06:14,240
you can have vanilla pudding for

125
00:06:23,590 --> 00:06:20,390
or you can uh you can have some of your

126
00:06:25,510 --> 00:06:23,600
old favorites too like scrambled eggs

127
00:06:27,110 --> 00:06:25,520
and a lot of these require just adding

128
00:06:28,790 --> 00:06:27,120
some water and so you'll see they don't

129
00:06:30,550 --> 00:06:28,800
look necessarily like scrambled eggs yet

130
00:06:32,870 --> 00:06:30,560
but they will and they can be pretty

131
00:06:34,629 --> 00:06:32,880
good now the important question is is

132
00:06:36,950 --> 00:06:34,639
how do you know whose food is whose well

133
00:06:38,950 --> 00:06:36,960
it's very important we have color codes

134
00:06:41,749 --> 00:06:38,960
so doug as the pilot of atlantis his

135
00:06:45,110 --> 00:06:41,759
color code is yellow and the commander

136
00:06:46,950 --> 00:06:45,120
is red now i see uh doug here has got

137
00:06:48,710 --> 00:06:46,960
the commander scrambled eggs so let's

138
00:06:50,710 --> 00:06:48,720

not tell the commander that doug stole

139
00:06:52,309 --> 00:06:50,720
the scrambled eggs so you gotta be

140
00:06:54,150 --> 00:06:52,319
careful about that now we also got a

141
00:06:55,430 --> 00:06:54,160
drink too so what we have is these drink

142
00:06:57,029 --> 00:06:55,440
bags here

143
00:06:58,629 --> 00:06:57,039
and on these drink bags they're just uh

144
00:07:00,550 --> 00:06:58,639
they're very easy to use you just pop a

145
00:07:02,390 --> 00:07:00,560
straw in there

146
00:07:03,909 --> 00:07:02,400
and then you can drink so it works out

147
00:07:05,670 --> 00:07:03,919
great this is for instance strawberry

148
00:07:08,070 --> 00:07:05,680
drink you pop a straw in there and you

149
00:07:09,830 --> 00:07:08,080
can sip it and it tastes great

150
00:07:11,110 --> 00:07:09,840
and uh the important thing though about

151
00:07:13,749 --> 00:07:11,120
drinks if you just float them around

152
00:07:15,510 --> 00:07:13,759
with the straw open then the the drink

153
00:07:17,110 --> 00:07:15,520
can float all around and get all over

154
00:07:18,469 --> 00:07:17,120
the all over the walls of the space

155
00:07:20,150 --> 00:07:18,479
station so you got to be very careful

156
00:07:22,629 --> 00:07:20,160
and they have a special valve on the top

157
00:07:24,710 --> 00:07:22,639
so you can close them off when they uh

158
00:07:26,150 --> 00:07:24,720
when you're not using them now also of

159
00:07:28,629 --> 00:07:26,160
course we have some we have to have some

160
00:07:30,150 --> 00:07:28,639
treats too so uh and

161
00:07:32,390 --> 00:07:30,160
i think you guys will recognize these

162
00:07:34,309 --> 00:07:32,400
some uh candy-coated chocolates so it's

163
00:07:36,550 --> 00:07:34,319

always fun to have a little bit of a

164
00:07:38,150 --> 00:07:36,560
little bit of candy also too and it's uh

165
00:07:40,390 --> 00:07:38,160
it's fun to eat too because you can you

166
00:07:41,909 --> 00:07:40,400
can shoot them at each other so so you

167
00:07:43,270 --> 00:07:41,919
caught us at the right time just about

168
00:07:50,230 --> 00:07:43,280
uh just about lunchtime those kind of

169
00:07:54,230 --> 00:07:52,070
my name is anthony tong and i go to

170
00:07:59,990 --> 00:07:54,240
galveston college high school and i

171
00:08:04,950 --> 00:08:02,390
well thanks for that question maurice uh

172
00:08:07,350 --> 00:08:04,960
no we definitely

173
00:08:09,589 --> 00:08:07,360
don't get bored up here uh on the space

174
00:08:10,469 --> 00:08:09,599
station or on the space shuttle uh we've

175
00:08:12,869 --> 00:08:10,479
got

176
00:08:15,029 --> 00:08:12,879
plenty to do uh while we're up here

177
00:08:16,309 --> 00:08:15,039
during the mission resupplying the space

178
00:08:18,629 --> 00:08:16,319
station or

179
00:08:20,950 --> 00:08:18,639
maintaining the space shuttle

180
00:08:23,510 --> 00:08:20,960
and then if uh we happen to get all our

181
00:08:25,830 --> 00:08:23,520
work done maybe uh before we go to sleep

182
00:08:27,430 --> 00:08:25,840
at night we we can take a chance take a

183
00:08:29,350 --> 00:08:27,440
few minutes to look out the one of the

184
00:08:31,189 --> 00:08:29,360
windows here out of the cupola which has

185
00:08:32,630 --> 00:08:31,199
got several windows so

186
00:08:38,949 --> 00:08:32,640
the last thing you do

187
00:08:42,949 --> 00:08:41,350
hi my name is sure and my question is do

188
00:08:46,790 --> 00:08:42,959

you feel heavy when you get back down to

189
00:08:50,790 --> 00:08:48,710
well as a matter of fact thomas when we

190
00:08:52,470 --> 00:08:50,800
get back to earth we do feel heavy uh

191
00:08:54,310 --> 00:08:52,480
right now we're floating in zero gravity

192
00:08:55,430 --> 00:08:54,320
so it's very comfortable it's a kind of

193
00:08:57,350 --> 00:08:55,440
like you've ever had a dream that you

194
00:08:58,870 --> 00:08:57,360
can fly that's just what it's like and

195
00:09:00,550 --> 00:08:58,880
it's so exciting to be able to fly

196
00:09:02,790 --> 00:09:00,560
around like superman here in the space

197
00:09:04,389 --> 00:09:02,800
station it's a lot of fun then when you

198
00:09:06,949 --> 00:09:04,399
get back to earth boy you pay the price

199
00:09:08,550 --> 00:09:06,959
because you feel really really heavy but

200
00:09:09,990 --> 00:09:08,560
you got to remember if you wake up late

201
00:09:11,269 --> 00:09:10,000
at night or something and get out of bed

202
00:09:12,550 --> 00:09:11,279
that you're not back on the space

203
00:09:13,670 --> 00:09:12,560
station because if you if you think

204
00:09:15,350 --> 00:09:13,680
you're back on the space station you'll

205
00:09:17,030 --> 00:09:15,360
jump out of bed try to float to go to

206
00:09:19,110 --> 00:09:17,040
another room and you'll end up on the

207
00:09:23,670 --> 00:09:19,120
floor so you feel very very heavy when

208
00:09:30,150 --> 00:09:26,630
i'm renee and i'm stephen and we're from

209
00:09:33,750 --> 00:09:30,160
las vegas new mexico our question is

210
00:09:39,509 --> 00:09:33,760
that if you can text or email in space

211
00:09:43,350 --> 00:09:41,430
well thanks for that question renee and

212
00:09:46,230 --> 00:09:43,360
steven uh

213
00:09:48,630 --> 00:09:46,240

we can't really text but we we have

214
00:09:51,430 --> 00:09:48,640
email and we're able to send email to

215
00:09:53,829 --> 00:09:51,440
our friends and family or co-workers so

216
00:09:57,350 --> 00:09:53,839
we have that we uh

217
00:09:59,990 --> 00:09:57,360
we can watch uh dvds

218
00:10:02,230 --> 00:10:00,000
on uh some of the laptop computers but

219
00:10:05,030 --> 00:10:02,240
we don't actually have tv up here so we

220
00:10:07,269 --> 00:10:05,040
we do have a lot of the the things that

221
00:10:09,509 --> 00:10:07,279
you have on earth but uh not all of them

222
00:10:13,190 --> 00:10:09,519
but uh we don't get a lot of chances to

223
00:10:16,310 --> 00:10:13,200
watch uh much on uh dvd anyway and uh

224
00:10:21,030 --> 00:10:16,320
email is just very quick so uh

225
00:10:26,310 --> 00:10:23,269
hi my name is destino from wyatt middle

226
00:10:32,949 --> 00:10:26,320
school in galveston and my question is

227
00:10:36,870 --> 00:10:35,030
well destiny it's uh it's very fun to

228
00:10:38,870 --> 00:10:36,880
sleep up here at night because obviously

229
00:10:40,310 --> 00:10:38,880
floating it's very very comfortable but

230
00:10:41,750 --> 00:10:40,320
you got to be careful because if we just

231
00:10:43,509 --> 00:10:41,760
fell asleep we might float into another

232
00:10:45,670 --> 00:10:43,519
module wake up and not know where we are

233
00:10:48,710 --> 00:10:45,680
so we have sleep restraints they're kind

234
00:10:50,470 --> 00:10:48,720
of like a sleeping bag and we tie across

235
00:10:52,710 --> 00:10:50,480
from one wall the other and you can put

236
00:10:54,470 --> 00:10:52,720
your sleeping constraint across a wall

237
00:10:56,470 --> 00:10:54,480
or across the ceiling or across the

238
00:10:57,750 --> 00:10:56,480

floor wherever you want to so it's a

239
00:10:59,430 --> 00:10:57,760
it's very very comfortable they're like

240
00:11:00,949 --> 00:10:59,440
sleeping bags except they they

241
00:11:02,710 --> 00:11:00,959
zip up so they come around your shoulder

242
00:11:08,230 --> 00:11:02,720
so you don't float out

243
00:11:12,829 --> 00:11:11,590
my name is my name is adorable

244
00:11:16,949 --> 00:11:12,839
my

245
00:11:16,959 --> 00:11:22,550
picks the members in the mission

246
00:11:28,790 --> 00:11:24,949
well thanks to alan eduardo and roberto

247
00:11:31,509 --> 00:11:28,800
for that great question um you know we

248
00:11:33,750 --> 00:11:31,519
were picked uh by the chief of the

249
00:11:37,190 --> 00:11:33,760
astronaut office dr peggy whitson and

250
00:11:38,949 --> 00:11:37,200
she's our boss and uh obviously her her

251
00:11:39,910 --> 00:11:38,959
choices have to go through

252
00:11:42,710 --> 00:11:39,920
several

253
00:11:45,110 --> 00:11:42,720
bosses up above her at nasa but

254
00:11:46,710 --> 00:11:45,120
primarily it's our our boss the chief of

255
00:11:55,190 --> 00:11:46,720
the astronaut office who picks

256
00:11:58,230 --> 00:11:56,389
question missions

257
00:12:02,310 --> 00:11:58,240
how does it feel to be blessed off in

258
00:12:06,150 --> 00:12:04,230
boy it's amazing it's like the best

259
00:12:07,590 --> 00:12:06,160
roller coaster ride you've ever been on

260
00:12:10,150 --> 00:12:07,600
it's kind of like getting shot out of a

261
00:12:12,230 --> 00:12:10,160
cannon you go from zero to seventeen

262
00:12:14,629 --> 00:12:12,240
thousand five hundred miles an hour in

263
00:12:16,470 --> 00:12:14,639

eight and a half minutes and it's a it's

264
00:12:17,910 --> 00:12:16,480
an amazing ride and the view keeps

265
00:12:19,990 --> 00:12:17,920
changing because it only takes about a

266
00:12:22,550 --> 00:12:20,000
minute or a minute and a half before the

267
00:12:24,069 --> 00:12:22,560
blue sky turns to jet black as you start

268
00:12:25,750 --> 00:12:24,079
getting into the upper regions of the

269
00:12:27,509 --> 00:12:25,760
atmosphere and then in eight and a half

270
00:12:29,350 --> 00:12:27,519
minutes the engines cut off and

271
00:12:30,949 --> 00:12:29,360
everything starts floating and it's uh

272
00:12:37,990 --> 00:12:30,959
it's a spectacular ride and we really

273
00:12:46,550 --> 00:12:40,790
sts 135

274
00:12:52,389 --> 00:12:48,550
well thanks that's a great question and

275
00:12:55,750 --> 00:12:52,399
uh it's a bit of a complicated answer

276
00:12:57,990 --> 00:12:55,760
on the space station they typically use

277
00:13:00,310 --> 00:12:58,000
what we call greenwich mean time which

278
00:13:02,949 --> 00:13:00,320
means it's based on the time

279
00:13:05,269 --> 00:13:02,959
somewhere in england and we use that

280
00:13:07,509 --> 00:13:05,279
time while we're on space station but

281
00:13:10,069 --> 00:13:07,519
for shuttle missions we also use what we

282
00:13:12,710 --> 00:13:10,079
call mission elapsed time which means

283
00:13:14,470 --> 00:13:12,720
that clock starts at zero when we launch

284
00:13:17,990 --> 00:13:14,480
so right now

285
00:13:21,190 --> 00:13:18,000
we're at uh eight days 18 hours and 53

286
00:13:23,350 --> 00:13:21,200
minutes into the mission of sts-135

287
00:13:24,389 --> 00:13:23,360
and just to complicate things even

288
00:13:26,150 --> 00:13:24,399

further

289
00:13:26,949 --> 00:13:26,160
we go around the earth so fast that

290
00:13:28,870 --> 00:13:26,959
every

291
00:13:32,310 --> 00:13:28,880
90 minutes we have an orbit so we get

292
00:13:33,910 --> 00:13:32,320
sunrises and sunsets 16 times a day so

293
00:13:35,910 --> 00:13:33,920
it kind of gets a little confusing but

294
00:13:44,150 --> 00:13:35,920
that's how we try to manage to maintain

295
00:13:50,870 --> 00:13:49,030
hi my name is from ysec my question is

296
00:13:55,910 --> 00:13:50,880
how why do you know

297
00:13:59,030 --> 00:13:57,670
well kiana it actually just looks like

298
00:14:00,790 --> 00:13:59,040
there's no gravity there is still

299
00:14:03,269 --> 00:14:00,800
gravity up here and if we weren't

300
00:14:05,430 --> 00:14:03,279
traveling at orbital speeds which is 17

301
00:14:07,030 --> 00:14:05,440
500 miles an hour if we were just took

302
00:14:09,110 --> 00:14:07,040
an elevator straight up here to this

303
00:14:10,949 --> 00:14:09,120
altitude and got out we would fall back

304
00:14:13,350 --> 00:14:10,959
down to earth it's the fact that we're

305
00:14:15,430 --> 00:14:13,360
going 17 000 miles an hour that we that

306
00:14:17,590 --> 00:14:15,440
we have an orbital orbital curve and we

307
00:14:19,269 --> 00:14:17,600
curve around the around the surface of

308
00:14:21,509 --> 00:14:19,279
the earth so we're actually falling at

309
00:14:23,990 --> 00:14:21,519
the same rate that the earth curves away

310
00:14:25,590 --> 00:14:24,000
so it feels for all intents and purposes

311
00:14:30,949 --> 00:14:25,600
like there's no gravity up here but

312
00:14:34,710 --> 00:14:32,790
hi my name is jerome

313
00:14:37,350 --> 00:14:34,720

carroll and i go to weisman square in

314
00:14:38,870 --> 00:14:37,360
galveston in galveston texas and my

315
00:14:45,910 --> 00:14:38,880
question is

316
00:14:49,910 --> 00:14:47,829
well thanks uh that's a great question

317
00:14:54,230 --> 00:14:49,920
as well um for our mission we're going

318
00:14:56,790 --> 00:14:54,240
to be up here roughly 13 days um but

319
00:15:00,310 --> 00:14:56,800
it really depends on the mission my last

320
00:15:02,550 --> 00:15:00,320
mission we were here 16 days and then

321
00:15:04,150 --> 00:15:02,560
i'm sure rex's were very similar but

322
00:15:06,230 --> 00:15:04,160
then the crew members that stay up here

323
00:15:09,430 --> 00:15:06,240
on space station can stay as long as six

324
00:15:11,910 --> 00:15:09,440
or seven months so

325
00:15:13,590 --> 00:15:11,920
we're we're able to stay in space for a

326
00:15:15,750 --> 00:15:13,600
fairly long time but for the shuttle

327
00:15:21,110 --> 00:15:15,760
missions we typically stay you know a

328
00:15:27,990 --> 00:15:25,030
i'm jonathan and i'm at a sema program

329
00:15:29,910 --> 00:15:28,000
and i'm from las cruces and

330
00:15:35,509 --> 00:15:29,920
my question is

331
00:15:38,629 --> 00:15:37,269
well jonathan actually we can listen to

332
00:15:40,150 --> 00:15:38,639
music in space and as a matter of fact

333
00:15:42,230 --> 00:15:40,160
this morning for the first time i used

334
00:15:44,870 --> 00:15:42,240
my ipod because i listened to listen to

335
00:15:46,710 --> 00:15:44,880
some music uh it uh i just was having a

336
00:15:47,910 --> 00:15:46,720
little trouble sleeping in so i decided

337
00:15:49,670 --> 00:15:47,920
well i'll just listen to some music and

338
00:15:51,670 --> 00:15:49,680

it was wonderful i had a a bunch of

339
00:15:54,230 --> 00:15:51,680
songs that i had selected to bring with

340
00:15:56,069 --> 00:15:54,240
me and uh and put the uh put the

341
00:15:57,749 --> 00:15:56,079
headphones on or the earbuds in and got

342
00:16:05,269 --> 00:15:57,759
to listen to my favorite songs before i

343
00:16:09,430 --> 00:16:07,350
hello i'm sebastian bess and i am

344
00:16:11,509 --> 00:16:09,440
dorothy james we are with the nasa

345
00:16:13,509 --> 00:16:11,519
summer camp at vanderbilt diver

346
00:16:15,269 --> 00:16:13,519
observatory in nashville tennessee our

347
00:16:17,189 --> 00:16:15,279
campers are 5th and 6th grade students

348
00:16:22,949 --> 00:16:17,199
and we have a question how many times

349
00:16:27,110 --> 00:16:25,350
that's a good question uh sebastian and

350
00:16:29,269 --> 00:16:27,120
dorothy um

351
00:16:32,230 --> 00:16:29,279
no real large meteors have ever hit the

352
00:16:33,430 --> 00:16:32,240
iss as rex said before

353
00:16:36,470 --> 00:16:33,440
we have a

354
00:16:39,269 --> 00:16:36,480
network of uh

355
00:16:42,470 --> 00:16:39,279
radars and satellites that can track

356
00:16:44,069 --> 00:16:42,480
orbital debris and if if it's something

357
00:16:47,350 --> 00:16:44,079
that's large enough we can move the

358
00:16:49,269 --> 00:16:47,360
space station in order to miss that but

359
00:16:51,189 --> 00:16:49,279
the space station has been hit by what

360
00:16:53,670 --> 00:16:51,199
we call micro meteorites before and

361
00:16:55,990 --> 00:16:53,680
they're really tiny almost sand sized

362
00:16:58,310 --> 00:16:56,000
pieces of meteorites

363
00:17:00,870 --> 00:16:58,320

but typically they don't do any

364
00:17:02,629 --> 00:17:00,880
significant damage to the space station

365
00:17:18,549 --> 00:17:02,639
other than maybe putting a little mark

366
00:17:26,710 --> 00:17:21,750
atlantis iss this is houston acr thank

367
00:17:26,720 --> 00:17:29,750
thanks a lot

368
00:17:34,549 --> 00:17:32,630
thank you atlantis iss and nasa summer

369
00:17:36,549 --> 00:17:34,559
of innovation students