



1
00:00:07,829 --> 00:00:03,030
station this is houston are you ready

2
00:00:07,839 --> 00:00:14,870
we're ready for the event houston

3
00:00:22,630 --> 00:00:17,189
conyers middle school this is houston

4
00:00:29,990 --> 00:00:24,550
station this is dr samuel king at

5
00:00:33,430 --> 00:00:31,910
uh dr king we've got you loud and clear

6
00:00:36,790 --> 00:00:33,440
aboard the international space station

7
00:00:41,670 --> 00:00:38,470
thank you excellent

8
00:00:43,590 --> 00:00:41,680
again we are in a position to introduce

9
00:00:47,029 --> 00:00:43,600
students at conor's middle

10
00:00:56,389 --> 00:00:47,039
to present questions for expedition 24

11
00:01:00,549 --> 00:00:58,790
my name is jordan dobson and my question

12
00:01:06,469 --> 00:01:00,559
is why are so many countries involved

13
00:01:10,789 --> 00:01:08,149

well uh jordan that's a great question

14

00:01:12,469 --> 00:01:10,799

and uh the primary reason is we're an

15

00:01:13,990 --> 00:01:12,479

orbiting laboratory and when you look

16

00:01:16,149 --> 00:01:14,000

out the windows you don't see any

17

00:01:17,749 --> 00:01:16,159

borders around our globe and so

18

00:01:19,510 --> 00:01:17,759

the science that we're doing and the

19

00:01:20,710 --> 00:01:19,520

things that we're exploring and trying

20

00:01:21,990 --> 00:01:20,720

to discover

21

00:01:24,469 --> 00:01:22,000

while we're here in this orbiting

22

00:01:25,670 --> 00:01:24,479

laboratory really affects us all as a

23

00:01:27,030 --> 00:01:25,680

human race

24

00:01:29,429 --> 00:01:27,040

and so uh

25

00:01:31,830 --> 00:01:29,439

it's actually uh uh makes it for a

26

00:01:33,190 --> 00:01:31,840

better more international uh

27

00:01:35,590 --> 00:01:33,200

uh place

28

00:01:37,670 --> 00:01:35,600

to get the full power of all of our

29

00:01:38,789 --> 00:01:37,680

universities around the globe all of our

30

00:01:40,630 --> 00:01:38,799

scientists

31

00:01:43,270 --> 00:01:40,640

uh to really

32

00:01:45,510 --> 00:01:43,280

set the pace for working together as an

33

00:01:48,149 --> 00:01:45,520

international partnership investigating

34

00:01:50,310 --> 00:01:48,159

these uh these things that

35

00:01:51,910 --> 00:01:50,320

that plague us in the way of diseases

36

00:01:53,270 --> 00:01:51,920

and medical problems that we have on the

37

00:01:55,670 --> 00:01:53,280

planet

38

00:01:57,429 --> 00:01:55,680

to looking out the window and taking

39

00:02:03,990 --> 00:01:57,439

pictures of our planet and learning how

40

00:02:07,030 --> 00:02:05,350

my name is hannah neville and my

41

00:02:13,350 --> 00:02:07,040

question is how long do you train to

42

00:02:17,510 --> 00:02:15,510

well hannah we have all been training

43

00:02:18,949 --> 00:02:17,520

for a number of years

44

00:02:21,270 --> 00:02:18,959

some of us

45

00:02:23,270 --> 00:02:21,280

anywhere from six to 12 years to to do

46

00:02:24,790 --> 00:02:23,280

this job but specifically for the

47

00:02:27,750 --> 00:02:24,800

mission that we're carrying out right

48

00:02:30,710 --> 00:02:27,760

now it's about two years long

49

00:02:33,110 --> 00:02:30,720

and um that's that includes all of the

50

00:02:35,430 --> 00:02:33,120

travel that we do around the world to

51
00:02:37,750 --> 00:02:35,440
the various control centers and training

52
00:02:40,710 --> 00:02:37,760
centers to learn all about the science

53
00:02:42,869 --> 00:02:40,720
and also the systems on board

54
00:02:50,150 --> 00:02:42,879
the various modules that make up the

55
00:02:58,470 --> 00:02:52,710
hi my name is ryan and how do you write

56
00:03:02,869 --> 00:03:00,390
ryan how we write in space well honestly

57
00:03:04,070 --> 00:03:02,879
most of the time i type on my laptop but

58
00:03:05,509 --> 00:03:04,080
when i do actually have to write

59
00:03:11,430 --> 00:03:05,519
something down i have a mechanical

60
00:03:15,350 --> 00:03:13,190
my name is savannah wegmer and my

61
00:03:21,110 --> 00:03:15,360
question is how long does the mission on

62
00:03:24,630 --> 00:03:22,630
well that's a great question savannah

63
00:03:26,149 --> 00:03:24,640

and our mission is going to be about six

64

00:03:28,229 --> 00:03:26,159

months long

65

00:03:30,149 --> 00:03:28,239

tracy was already here she came up a

66

00:03:32,070 --> 00:03:30,159

couple months before we got here and

67

00:03:33,509 --> 00:03:32,080

then shannon and i came up together in

68

00:03:35,430 --> 00:03:33,519

the middle of june

69

00:03:37,350 --> 00:03:35,440

and our mission together will be about

70

00:03:39,990 --> 00:03:37,360

four months together and then tracy will

71

00:03:42,550 --> 00:03:40,000

go uh go back to the planet uh sometime

72

00:03:45,589 --> 00:03:42,560

in late september and then we'll stay on

73

00:03:47,430 --> 00:03:45,599

until uh until late november and so

74

00:03:49,190 --> 00:03:47,440

these missions on the international

75

00:03:54,710 --> 00:03:49,200

space station are lasting about six

76
00:03:59,670 --> 00:03:56,550
hello my name is braxton payne i'm from

77
00:04:01,350 --> 00:03:59,680
boy scout troop 973 and my question is

78
00:04:06,229 --> 00:04:01,360
what happens if an astronaut gets hurt

79
00:04:10,789 --> 00:04:08,390
well braxton each one of us is trained

80
00:04:13,110 --> 00:04:10,799
uh to be what we call a crew medical

81
00:04:15,030 --> 00:04:13,120
officer and we have

82
00:04:16,629 --> 00:04:15,040
many hours where we

83
00:04:19,189 --> 00:04:16,639
have learned how to do certain

84
00:04:22,150 --> 00:04:19,199
procedures and diagnose problems and

85
00:04:23,510 --> 00:04:22,160
also have trained in emergency rooms

86
00:04:25,590 --> 00:04:23,520
around houston

87
00:04:26,710 --> 00:04:25,600
to learn hands-on

88
00:04:30,469 --> 00:04:26,720

how to

89

00:04:31,749 --> 00:04:30,479

give them

90

00:04:33,670 --> 00:04:31,759

ivs

91

00:04:36,469 --> 00:04:33,680

all sorts of things to to fix them right

92

00:04:38,710 --> 00:04:36,479

up but our best resource are the flight

93

00:04:40,230 --> 00:04:38,720

surgeons who are in mission control and

94

00:04:42,469 --> 00:04:40,240

as long as we have communication with

95

00:04:47,990 --> 00:04:42,479

the ground then we have the experts on

96

00:04:52,070 --> 00:04:50,469

hi my name is jacob sam martin and my

97

00:04:57,270 --> 00:04:52,080

question is what advice would you give

98

00:05:00,550 --> 00:04:58,950

jacob first and foremost if you're

99

00:05:02,870 --> 00:05:00,560

interested in being an astronaut then

100

00:05:05,350 --> 00:05:02,880

it's very important to do well in school

101

00:05:07,189 --> 00:05:05,360

and do well in the areas of math and

102

00:05:08,710 --> 00:05:07,199

science and technology because that are

103

00:05:10,629 --> 00:05:08,720

the skills that we need at nasa and

104

00:05:12,390 --> 00:05:10,639

that's what it takes to be an astronaut

105

00:05:14,629 --> 00:05:12,400

beyond that once you're done with school

106

00:05:16,310 --> 00:05:14,639

go find a job that you like

107

00:05:18,550 --> 00:05:16,320

i say that you don't need to do a

108

00:05:20,070 --> 00:05:18,560

particular job but you need to be good

109

00:05:21,830 --> 00:05:20,080

at what you do and i find that most

110

00:05:28,230 --> 00:05:21,840

people who enjoy their work will be very

111

00:05:33,510 --> 00:05:30,710

hi my name is daniel long

112

00:05:36,070 --> 00:05:33,520

and my question is

113

00:05:41,990 --> 00:05:36,080

how does the iss

114

00:05:47,029 --> 00:05:45,270

uh daniel great great question and um

115

00:05:49,990 --> 00:05:47,039

primarily in two ways the way i look at

116

00:05:53,510 --> 00:05:50,000

this is uh the way that the iss helps

117

00:05:55,189 --> 00:05:53,520

society is uh is

118

00:05:56,469 --> 00:05:55,199

first of all helps us better take care

119

00:05:57,909 --> 00:05:56,479

of our planet

120

00:05:59,670 --> 00:05:57,919

when we look out the windows we have

121

00:06:01,430 --> 00:05:59,680

different cameras and things that we use

122

00:06:03,110 --> 00:06:01,440

to do crew

123

00:06:04,870 --> 00:06:03,120

earth observations

124

00:06:07,029 --> 00:06:04,880

and we can

125

00:06:08,870 --> 00:06:07,039

we can also take a look at land use and

126

00:06:11,510 --> 00:06:08,880

things like that to assist farmers and

127

00:06:13,270 --> 00:06:11,520

the use of of growing crops and things

128

00:06:15,590 --> 00:06:13,280

so it helps us

129

00:06:17,510 --> 00:06:15,600

in a way to take care of our planet

130

00:06:19,189 --> 00:06:17,520

and it also helps us in the way to take

131

00:06:21,590 --> 00:06:19,199

care of each other as well we do a lot

132

00:06:23,510 --> 00:06:21,600

of a lot of science up here that

133

00:06:25,749 --> 00:06:23,520

involves uh medical experiments and

134

00:06:27,990 --> 00:06:25,759

things like that to try to make life

135

00:06:31,029 --> 00:06:28,000

better on earth as well so we hope of

136

00:06:32,390 --> 00:06:31,039

course to make that big discovery to to

137

00:06:34,070 --> 00:06:32,400

to help cure

138

00:06:36,790 --> 00:06:34,080

that disease that plagues us or whatever

139

00:06:38,230 --> 00:06:36,800

it might be but we like to uh

140

00:06:41,189 --> 00:06:38,240

we we've been spending a lot of time

141

00:06:42,070 --> 00:06:41,199

with science uh developing new materials

142

00:06:54,309 --> 00:06:42,080

uh

143

00:06:57,589 --> 00:06:56,390

hello my name is cameron smith and my

144

00:07:04,790 --> 00:06:57,599

question is

145

00:07:09,909 --> 00:07:06,629

wow it's hard to put that one in a

146

00:07:12,230 --> 00:07:09,919

nutshell because you prepare for launch

147

00:07:15,589 --> 00:07:12,240

in uh in many ways

148

00:07:17,350 --> 00:07:15,599

but the day of launch you basically

149

00:07:19,189 --> 00:07:17,360

you you get up you

150

00:07:20,870 --> 00:07:19,199

you eat you get dressed you get the

151
00:07:23,270 --> 00:07:20,880
bathroom and then you get into the

152
00:07:25,110 --> 00:07:23,280
rocket but there's a lot of work that

153
00:07:26,469 --> 00:07:25,120
gets done on the ground to prepare your

154
00:07:29,670 --> 00:07:26,479
rocket before

155
00:07:31,670 --> 00:07:29,680
it actually takes off you have to

156
00:07:33,430 --> 00:07:31,680
when you're launching on the soyuz which

157
00:07:34,710 --> 00:07:33,440
is what what the three of us have

158
00:07:36,950 --> 00:07:34,720
launched on

159
00:07:39,510 --> 00:07:36,960
uh you actually um

160
00:07:41,830 --> 00:07:39,520
do pressure checks in your suit and act

161
00:07:42,790 --> 00:07:41,840
and actually get into your custom

162
00:07:45,189 --> 00:07:42,800
fitted

163
00:07:47,670 --> 00:07:45,199

seat liner which is very important that

164

00:07:50,150 --> 00:07:47,680

you fit in with your suit pressurized so

165

00:07:51,270 --> 00:07:50,160

you go through a lot of leak checks

166

00:07:53,749 --> 00:07:51,280

you

167

00:07:55,909 --> 00:07:53,759

monitor all the systems on the rocket

168

00:07:56,869 --> 00:07:55,919

that they're all ready to go

169

00:07:58,710 --> 00:07:56,879

and

170

00:08:04,150 --> 00:07:58,720

you wait patiently for the

171

00:08:08,390 --> 00:08:06,309

hello my name is carson wallace my

172

00:08:14,469 --> 00:08:08,400

question for you is what mission are you

173

00:08:19,510 --> 00:08:16,790

hey carson most of what i'm doing at the

174

00:08:22,070 --> 00:08:19,520

moment involves scientific experiments

175

00:08:23,510 --> 00:08:22,080

and so i've i'm working with folks on

176

00:08:24,710 --> 00:08:23,520

the ground to do a number of different

177

00:08:26,309 --> 00:08:24,720

experiments

178

00:08:29,189 --> 00:08:26,319

i won't go into them all but a lot of

179

00:08:32,070 --> 00:08:29,199

them actually i am using myself are

180

00:08:33,750 --> 00:08:32,080

there using my using me as a as a test

181

00:08:36,389 --> 00:08:33,760

subject and so i've got

182

00:08:38,469 --> 00:08:36,399

nutrition studies going on we're

183

00:08:40,550 --> 00:08:38,479

monitoring my heart looking at how my

184

00:08:43,670 --> 00:08:40,560

heart works and my blood vessels to see

185

00:08:45,990 --> 00:08:43,680

how the body adapts and adapts to space

186

00:08:51,190 --> 00:08:46,000

and how it progresses over time while

187

00:08:54,470 --> 00:08:53,190

hi my name is rena winooza and my

188

00:08:59,030 --> 00:08:54,480

question is how heavy are your

189

00:09:03,829 --> 00:09:01,190

hi rina that's a great question um the

190

00:09:05,590 --> 00:09:03,839

spacesuits that we wear when we go on a

191

00:09:07,269 --> 00:09:05,600

spacewalk are actually pretty heavy when

192

00:09:09,750 --> 00:09:07,279

you're on the earth they weigh about 300

193

00:09:11,110 --> 00:09:09,760

pounds a little more than 300 pounds so

194

00:09:13,990 --> 00:09:11,120

they're pretty heavy you wouldn't be

195

00:09:15,350 --> 00:09:14,000

able to stand up in one uh if you put it

196

00:09:16,230 --> 00:09:15,360

on on the ground of course if you're in

197

00:09:17,509 --> 00:09:16,240

space

198

00:09:18,949 --> 00:09:17,519

they're weightless and everything is

199

00:09:20,710 --> 00:09:18,959

floating around

200

00:09:22,150 --> 00:09:20,720

there's one important factor you have to

201
00:09:24,550 --> 00:09:22,160
remember though that even though they're

202
00:09:26,389 --> 00:09:24,560
weightless they still have mass and so

203
00:09:28,230 --> 00:09:26,399
when you're moving around when you're

204
00:09:29,590 --> 00:09:28,240
moving a large object around in space

205
00:09:31,990 --> 00:09:29,600
you have to remember that you have to

206
00:09:32,949 --> 00:09:32,000
apply the same amount of force to stop

207
00:09:34,389 --> 00:09:32,959
that

208
00:09:36,389 --> 00:09:34,399
big mass

209
00:09:38,150 --> 00:09:36,399
that you did to

210
00:09:40,070 --> 00:09:38,160
to get it started so you have to be very

211
00:09:41,670 --> 00:09:40,080
careful but they're weightless in space

212
00:09:46,870 --> 00:09:41,680
but on the earth they weigh about 300

213
00:09:50,870 --> 00:09:47,910

my name is

214

00:09:57,269 --> 00:09:50,880

ford what kind of equipment do you use

215

00:10:00,949 --> 00:09:59,509

well hey darren we um

216

00:10:02,710 --> 00:10:00,959

we have a lot of equipment onboard the

217

00:10:04,870 --> 00:10:02,720

iss actually

218

00:10:07,350 --> 00:10:04,880

everything from uh

219

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

television cameras to monitors to

220

00:10:12,470 --> 00:10:10,320

computers to batteries to

221

00:10:15,670 --> 00:10:12,480

lights to tools

222

00:10:18,069 --> 00:10:15,680

valves pumps connectors

223

00:10:20,069 --> 00:10:18,079

hatches hatch seals uh we have an

224

00:10:22,710 --> 00:10:20,079

airlock we have a bathroom we have a

225

00:10:24,550 --> 00:10:22,720

galley we have what else do we use

226

00:10:25,910 --> 00:10:24,560

we can go on and on and on and there's

227

00:10:29,190 --> 00:10:25,920

there's that's only the equipment that

228

00:10:31,030 --> 00:10:29,200

we can actually see we have scientific

229

00:10:33,269 --> 00:10:31,040

equipment we have

230

00:10:37,110 --> 00:10:33,279

large doers that get the temperature of

231

00:10:38,870 --> 00:10:37,120

objects down to minus 80 even minus 95

232

00:10:40,230 --> 00:10:38,880

degrees

233

00:10:44,310 --> 00:10:40,240

we have

234

00:10:51,110 --> 00:10:44,320

have

235

00:10:56,069 --> 00:10:54,069

hi my name is jada jackson

236

00:11:02,069 --> 00:10:56,079

my question is what type of food and

237

00:11:05,910 --> 00:11:03,670

well jada we actually have a wide

238

00:11:07,670 --> 00:11:05,920

variety of food

239

00:11:09,509 --> 00:11:07,680

and and drinks on the space station i

240

00:11:12,230 --> 00:11:09,519

don't know if you can see it tracy's got

241

00:11:15,030 --> 00:11:12,240

some jelly beans floating right now and

242

00:11:16,870 --> 00:11:15,040

they tend to go everywhere so we've got

243

00:11:18,790 --> 00:11:16,880

everything from common candies and then

244

00:11:21,110 --> 00:11:18,800

we've got

245

00:11:23,350 --> 00:11:21,120

drinks all our drinks start off with

246

00:11:25,670 --> 00:11:23,360

water and then everything else is

247

00:11:27,269 --> 00:11:25,680

dehydrated so we add water to whatever

248

00:11:30,389 --> 00:11:27,279

drinks we're going to make so be it

249

00:11:32,069 --> 00:11:30,399

juice or milk or coffee or tea and

250

00:11:34,630 --> 00:11:32,079

that's the same with our food a lot of

251
00:11:37,430 --> 00:11:34,640
our food comes up to us in a dehydrated

252
00:11:39,430 --> 00:11:37,440
form we add either cold or hot water to

253
00:11:43,030 --> 00:11:39,440
it and make the food that we're going to

254
00:11:46,230 --> 00:11:44,630
and normally we don't do this with our

255
00:11:54,790 --> 00:11:46,240
food and our drinks because it does make

256
00:11:59,350 --> 00:11:56,870
hi my name is aaron gibbs and my

257
00:12:05,590 --> 00:11:59,360
question is how do you sleep with all

258
00:12:09,509 --> 00:12:08,069
that's a great question aaron uh it is

259
00:12:11,190 --> 00:12:09,519
tough to sleep when you first get to

260
00:12:13,750 --> 00:12:11,200
space because you are you do get pretty

261
00:12:14,790 --> 00:12:13,760
excited about um what's going on and

262
00:12:15,990 --> 00:12:14,800
when you have

263
00:12:18,790 --> 00:12:16,000

uh

264

00:12:20,949 --> 00:12:18,800

real dynamic events like a space walk or

265

00:12:22,710 --> 00:12:20,959

something like that sometimes it's uh

266

00:12:23,990 --> 00:12:22,720

it's like trying to get to sleep before

267

00:12:25,670 --> 00:12:24,000

christmas morning or something you know

268

00:12:28,389 --> 00:12:25,680

but um

269

00:12:30,870 --> 00:12:28,399

the the uh actually sleep is very very

270

00:12:32,550 --> 00:12:30,880

uh is very comfortable in space because

271

00:12:34,949 --> 00:12:32,560

you're floating you don't have any any

272

00:12:36,150 --> 00:12:34,959

hot spots or anything uh like you would

273

00:12:37,430 --> 00:12:36,160

when you get laying in your bed you

274

00:12:39,350 --> 00:12:37,440

don't wake up with a sore neck or

275

00:12:40,629 --> 00:12:39,360

anything or sore back

276

00:12:42,230 --> 00:12:40,639

but the thing you have to remember is

277

00:12:43,750 --> 00:12:42,240

that everything floats in space

278

00:12:45,990 --> 00:12:43,760

including you when you go to sleep and

279

00:12:47,829 --> 00:12:46,000

so and so if you want to wake up in the

280

00:12:49,269 --> 00:12:47,839

same place you went to sleep and you

281

00:12:51,430 --> 00:12:49,279

have to kind of strap yourself down so

282

00:12:53,430 --> 00:12:51,440

we have sleeping bags and we use a lot

283

00:12:55,590 --> 00:12:53,440

of velcro and some straps to make sure

284

00:12:57,430 --> 00:12:55,600

that the sleeping pad doesn't leave our

285

00:12:59,269 --> 00:12:57,440

sleeping compartment and we don't leave

286

00:13:04,389 --> 00:12:59,279

our sleeping bag as well so great

287

00:13:10,470 --> 00:13:08,150

hi my name is amir and my question is

288

00:13:15,670 --> 00:13:10,480

what is the temperature in space in the

289

00:13:21,350 --> 00:13:18,310

well the temperature in space

290

00:13:22,230 --> 00:13:21,360

i i i hear is about

291

00:13:24,949 --> 00:13:22,240

uh

292

00:13:26,470 --> 00:13:24,959

plus 200 degrees fahrenheit to minus 200

293

00:13:28,949 --> 00:13:26,480

degrees fahrenheit depending on where

294

00:13:31,030 --> 00:13:28,959

the sun is i've never experienced those

295

00:13:33,430 --> 00:13:31,040

temperatures except maybe when i've had

296

00:13:36,069 --> 00:13:33,440

a pizza in the oven and stuck my hand in

297

00:13:36,790 --> 00:13:36,079

there i wouldn't recommend that

298

00:13:38,870 --> 00:13:36,800

but

299

00:13:41,910 --> 00:13:38,880

suffice it to say that it is very hot

300

00:13:44,069 --> 00:13:41,920

and very cold in space

301
00:13:46,550 --> 00:13:44,079
in fact when you're out doing a space

302
00:13:49,269 --> 00:13:46,560
walk which doug has done

303
00:13:50,949 --> 00:13:49,279
it can get pretty hot outside um the

304
00:13:52,550 --> 00:13:50,959
when the sun is hitting you directly you

305
00:13:55,829 --> 00:13:52,560
can actually feel

306
00:13:57,350 --> 00:13:55,839
um some uh some intense heat

307
00:13:59,030 --> 00:13:57,360
but here on board the international

308
00:14:02,550 --> 00:13:59,040
space station it's a it's a very

309
00:14:04,389 --> 00:14:02,560
comfortable 72 degrees pretty pretty

310
00:14:06,470 --> 00:14:04,399
much the

311
00:14:08,949 --> 00:14:06,480
average room temperature sometimes it

312
00:14:11,269 --> 00:14:08,959
gets a little cold for

313
00:14:12,710 --> 00:14:11,279

people like shannon and i uh but we just

314

00:14:14,790 --> 00:14:12,720

put on a sweater

315

00:14:16,389 --> 00:14:14,800

and uh we're just fine so it is very

316

00:14:24,069 --> 00:14:16,399

comfortable here on board the

317

00:14:29,350 --> 00:14:27,430

hi my name is deonte and my question is

318

00:14:33,829 --> 00:14:29,360

are you sometimes afraid when traveling

319

00:14:38,550 --> 00:14:36,150

deante that's a very good question and i

320

00:14:41,509 --> 00:14:38,560

can only answer for myself that i was

321

00:14:43,350 --> 00:14:41,519

not afraid i was very excited when i was

322

00:14:45,189 --> 00:14:43,360

getting ready to launch on the rocket i

323

00:14:47,110 --> 00:14:45,199

wasn't afraid because i have done so

324

00:14:48,949 --> 00:14:47,120

much training over the years i knew

325

00:14:50,150 --> 00:14:48,959

exactly what was supposed to happen i

326

00:14:51,509 --> 00:14:50,160

didn't know what it was going to feel

327

00:14:53,509 --> 00:14:51,519

like but i knew what was supposed to

328

00:14:55,750 --> 00:14:53,519

happen and when everything was going

329

00:14:58,069 --> 00:14:55,760

according to plan it was very easy for

330

00:15:07,430 --> 00:14:58,079

me to relax and just enjoy the ride up

331

00:15:12,870 --> 00:15:10,550

hi my name is brittany and i wanted to

332

00:15:17,509 --> 00:15:12,880

know what is the international space

333

00:15:21,670 --> 00:15:19,110

well brittany that's a very good

334

00:15:22,550 --> 00:15:21,680

question and right now it's home for us

335

00:15:24,790 --> 00:15:22,560

but

336

00:15:27,670 --> 00:15:24,800

it's a big the best way to think about

337

00:15:30,069 --> 00:15:27,680

it's a big orbiting laboratory

338

00:15:32,629 --> 00:15:30,079

and it's going around in earth orbit it

339

00:15:34,470 --> 00:15:32,639

travels around our beautiful planet once

340

00:15:35,670 --> 00:15:34,480

every 90 minutes

341

00:15:38,710 --> 00:15:35,680

and

342

00:15:39,350 --> 00:15:38,720

it is about the size of a

343

00:15:47,829 --> 00:15:39,360

of

344

00:15:49,590 --> 00:15:47,839

room to roam around but it's built in

345

00:15:51,110 --> 00:15:49,600

modules sort of like a habit trail i

346

00:15:52,550 --> 00:15:51,120

don't know if you've ever had a a

347

00:15:54,710 --> 00:15:52,560

hamster or something like that and i've

348

00:15:56,230 --> 00:15:54,720

had a habit trail but it's put together

349

00:15:57,269 --> 00:15:56,240

about like that

350

00:15:59,269 --> 00:15:57,279

and um

351
00:16:01,829 --> 00:15:59,279
and we have a lot of room to roam around

352
00:16:04,710 --> 00:16:01,839
and and also uh you can actually see the

353
00:16:06,550 --> 00:16:04,720
space station uh uh passing over

354
00:16:09,030 --> 00:16:06,560
if it's in sunlight and you're in

355
00:16:11,590 --> 00:16:09,040
darkness and so i think you can go to a

356
00:16:13,189 --> 00:16:11,600
uh to a website nasa website and you can

357
00:16:14,949 --> 00:16:13,199
put in your location and you can find

358
00:16:21,269 --> 00:16:14,959
out when you can see the space station

359
00:16:25,749 --> 00:16:24,069
hi my name is jada isaac and my question

360
00:16:30,470 --> 00:16:25,759
is can you talk to your family while

361
00:16:34,550 --> 00:16:33,030
well of course jada we have

362
00:16:36,870 --> 00:16:34,560
lots of ways

363
00:16:39,749 --> 00:16:36,880

to talk to our family in space uh while

364

00:16:41,350 --> 00:16:39,759

we're in space we can email them

365

00:16:44,230 --> 00:16:41,360

although it's not as uh

366

00:16:47,030 --> 00:16:44,240

as immediately as uh as you would send

367

00:16:49,829 --> 00:16:47,040

an email on earth we send an email

368

00:16:51,749 --> 00:16:49,839

and then the ground receives it and they

369

00:16:53,269 --> 00:16:51,759

ship it out to uh to our family and

370

00:16:54,710 --> 00:16:53,279

friends and then that's the same way we

371

00:16:56,150 --> 00:16:54,720

receive them so there's a little bit of

372

00:16:59,269 --> 00:16:56,160

a delay

373

00:17:00,870 --> 00:16:59,279

we can also call them they can't call us

374

00:17:03,189 --> 00:17:00,880

but we can call them

375

00:17:06,470 --> 00:17:03,199

and that works in a similar way that we

376

00:17:08,470 --> 00:17:06,480

actually um use the satellites as well

377

00:17:10,470 --> 00:17:08,480

as our as well as our antennas on the

378

00:17:12,949 --> 00:17:10,480

space station to bounce a signal down to

379

00:17:14,309 --> 00:17:12,959

a box on the ground and that sends out a

380

00:17:17,350 --> 00:17:14,319

signal um

381

00:17:19,590 --> 00:17:17,360

uh to uh to you know into the telephone

382

00:17:22,390 --> 00:17:19,600

system and then we also can have a

383

00:17:24,710 --> 00:17:22,400

conference with our families uh using um

384

00:17:26,870 --> 00:17:24,720

the camera system here on board and a

385

00:17:28,789 --> 00:17:26,880

private uh conference with our family

386

00:17:31,190 --> 00:17:28,799

the cameras are at their house and we

387

00:17:34,150 --> 00:17:31,200

can communicate through uh through video

388

00:17:37,190 --> 00:17:34,160

and then we use again our antennas on

389

00:17:38,870 --> 00:17:37,200

board to bounce a voice signal down to

390

00:17:41,350 --> 00:17:38,880

them as well so we can hear them and we

391

00:17:43,190 --> 00:17:41,360

can also talk to them so we have a

392

00:17:46,150 --> 00:17:43,200

variety of ways to communicate with them

393

00:17:47,029 --> 00:17:46,160

real time and we also communicate to

394

00:17:49,430 --> 00:17:47,039

them

395

00:17:51,669 --> 00:17:49,440

or they communicate to us through uh

396

00:17:53,590 --> 00:17:51,679

gifts like care packages when a vehicle

397

00:17:56,070 --> 00:17:53,600

arrives sometimes uh they're packed with

398

00:17:58,070 --> 00:17:56,080

goodies from our family uh cards and

399

00:18:03,270 --> 00:17:58,080

other notes uh to let us know that

400

00:18:07,669 --> 00:18:05,750

hello my name is zoya whitcomb and my

401

00:18:13,590 --> 00:18:07,679

question is how long does it take to

402

00:18:17,190 --> 00:18:15,190

well zoe i have to tell you it does not

403

00:18:18,789 --> 00:18:17,200

take very long at all no matter whether

404

00:18:21,350 --> 00:18:18,799

you're riding up on the shuttle or the

405

00:18:23,190 --> 00:18:21,360

soyuz rocket like we did it only takes

406

00:18:25,430 --> 00:18:23,200

if you can believe this eight and a half

407

00:18:26,549 --> 00:18:25,440

minutes to get into space and after

408

00:18:28,390 --> 00:18:26,559

eight and a half minutes because our

409

00:18:31,669 --> 00:18:28,400

engines are very powerful eight and a

410

00:18:37,190 --> 00:18:31,679

half minutes we're going 17 500 miles an

411

00:18:46,470 --> 00:18:39,510

hi my name is daniel and my question is

412

00:18:49,990 --> 00:18:48,789

that's a great question daniel and i i

413

00:18:51,750 --> 00:18:50,000

have the very same question because i

414

00:18:53,510 --> 00:18:51,760

hope i can be one forever but it's such

415

00:18:54,789 --> 00:18:53,520

a fun job

416

00:18:57,510 --> 00:18:54,799

but

417

00:19:00,710 --> 00:18:57,520

like any other job uh with the uh

418

00:19:03,110 --> 00:19:00,720

demands physically uh on the job uh as

419

00:19:04,950 --> 00:19:03,120

long as you can stay medically qualified

420

00:19:07,029 --> 00:19:04,960

uh we take a lot of medical tests uh

421

00:19:08,150 --> 00:19:07,039

before we uh get a chance to fly in

422

00:19:10,630 --> 00:19:08,160

space and

423

00:19:13,029 --> 00:19:10,640

and um and as long as you can stay

424

00:19:18,549 --> 00:19:13,039

medically qualified and stay fit you can

425

00:19:23,110 --> 00:19:20,950

hi my name is eric morbino and my

426

00:19:29,029 --> 00:19:23,120

question is what do you have to do to

427

00:19:35,190 --> 00:19:32,070

well eric you have to prepare uh

428

00:19:36,710 --> 00:19:35,200

your suits uh make sure that they are um

429

00:19:38,710 --> 00:19:36,720

you're still gonna fit in your suit

430

00:19:40,150 --> 00:19:38,720

because you actually grow here in space

431

00:19:42,310 --> 00:19:40,160

a little bit

432

00:19:44,070 --> 00:19:42,320

you make sure that your suit is

433

00:19:47,029 --> 00:19:44,080

going to pass its leak check that's very

434

00:19:48,870 --> 00:19:47,039

important too you you practice all the

435

00:19:51,350 --> 00:19:48,880

procedures all the steps that you're

436

00:19:52,870 --> 00:19:51,360

going to do inside the spaceship to

437

00:19:54,150 --> 00:19:52,880

bring it in for a landing you've got to

438

00:19:56,549 --> 00:19:54,160

practice that just like you do your

439

00:19:58,470 --> 00:19:56,559

homework we also um

440

00:19:59,830 --> 00:19:58,480

prepare

441

00:20:05,430 --> 00:19:59,840

our

442

00:20:07,430 --> 00:20:05,440

to come home it's gotta

443

00:20:10,310 --> 00:20:07,440

change from a spaceship

444

00:20:12,870 --> 00:20:10,320

to a landing

445

00:20:14,549 --> 00:20:12,880

vessel if you will and there's steps

446

00:20:17,350 --> 00:20:14,559

that you have to do to prepare it to do

447

00:20:19,750 --> 00:20:17,360

that so we we prepare in that way we

448

00:20:21,990 --> 00:20:19,760

also have to prepare the station in

449

00:20:24,310 --> 00:20:22,000

order to release the vehicle the

450

00:20:26,630 --> 00:20:24,320

spaceship from its latches and so

451
00:20:29,190 --> 00:20:26,640
there's many steps that we do here on

452
00:20:31,830 --> 00:20:29,200
board that we also coordinate with our

453
00:20:33,669 --> 00:20:31,840
team on the ground in mission control

454
00:20:36,310 --> 00:20:33,679
and then there's a lot of people that

455
00:20:38,310 --> 00:20:36,320
are on earth uh where we land that are

456
00:20:40,070 --> 00:20:38,320
waiting for us and and

457
00:20:41,430 --> 00:20:40,080
they have many many steps they have to

458
00:20:42,710 --> 00:20:41,440
do to prepare

459
00:20:44,230 --> 00:20:42,720
to receive us

460
00:20:49,590 --> 00:20:44,240
once we land

461
00:20:54,390 --> 00:20:51,830
as a superintendent

462
00:20:56,070 --> 00:20:54,400
we will prepare to close but uh several

463
00:20:58,789 --> 00:20:56,080

comments we would like to

464

00:21:00,789 --> 00:20:58,799

thank you for the partnership that is in

465

00:21:03,190 --> 00:21:00,799

place with nasa and this has been a

466

00:21:05,430 --> 00:21:03,200

phenomenal opportunity for our students

467

00:21:06,230 --> 00:21:05,440

because we continuously impress upon

468

00:21:08,870 --> 00:21:06,240

them

469

00:21:11,110 --> 00:21:08,880

that they should always dream

470

00:21:14,070 --> 00:21:11,120

however we want them to understand that

471

00:21:16,390 --> 00:21:14,080

those dreams can become reality

472

00:21:18,950 --> 00:21:16,400

and that they can travel the same path

473

00:21:21,990 --> 00:21:18,960

or similar paths that you have traveled

474

00:21:25,190 --> 00:21:22,000

and accomplished uh identical uh levels

475

00:21:26,950 --> 00:21:25,200

of quality in terms of their pursuit so

476

00:21:29,430 --> 00:21:26,960

for that we're extremely grateful and

477

00:21:32,149 --> 00:21:29,440

proud in terms of uh the partnership

478

00:21:35,190 --> 00:21:32,159

again and with that said i'm going to

479

00:21:37,750 --> 00:21:35,200

ask our students as we sign off to give

480

00:21:44,630 --> 00:21:37,760

you a great round of applause and thanks

481

00:21:44,640 --> 00:21:58,470

thank you very much

482

00:22:09,029 --> 00:22:00,789

station this is houston acr that

483

00:22:13,990 --> 00:22:11,590

thank you conyers middle school station