



1
00:00:04,470 --> 00:00:02,470
international space station this is

2
00:00:07,030 --> 00:00:04,480
houston mission control are you ready

3
00:00:09,110 --> 00:00:07,040
for the event

4
00:00:14,950 --> 00:00:09,120
the event

5
00:00:17,109 --> 00:00:14,960
chris hadfield public school this is

6
00:00:19,029 --> 00:00:17,119
mission control in houston texas please

7
00:00:23,189 --> 00:00:19,039
call the international space station for

8
00:00:27,349 --> 00:00:25,349
station this is sean marx principal of

9
00:00:32,709 --> 00:00:27,359
chris hadfield public school how do you

10
00:00:37,430 --> 00:00:35,030
chris hadfield public school and

11
00:00:47,270 --> 00:00:37,440
principal marks hadfield hawks hello i

12
00:00:51,830 --> 00:00:49,350
good morning chris it's jeremy here

13
00:00:53,510 --> 00:00:51,840

great to see you in space as always i i

14

00:00:54,950 --> 00:00:53,520

got to tell you it's really awesome your

15

00:00:56,549 --> 00:00:54,960

school is cool

16

00:00:58,709 --> 00:00:56,559

and i saw a picture of you at the front

17

00:01:00,549 --> 00:00:58,719

door made out of the photos of students

18

00:01:02,150 --> 00:01:00,559

from the school so i thought that was

19

00:01:04,950 --> 00:01:02,160

pretty neat so an awesome school you

20

00:01:06,630 --> 00:01:04,960

have here i've got some really excited

21

00:01:08,390 --> 00:01:06,640

kids who want to learn a little bit

22

00:01:09,910 --> 00:01:08,400

about space so i'm going to get going

23

00:01:11,830 --> 00:01:09,920

with the questions here i'll be standing

24

00:01:13,109 --> 00:01:11,840

right here chris now everybody chris

25

00:01:15,590 --> 00:01:13,119

can't see us

26

00:01:17,109 --> 00:01:15,600

we can see him he can only hear us so

27

00:01:18,950 --> 00:01:17,119

i'll be standing here chris so if you

28

00:01:20,630 --> 00:01:18,960

need any help or any demonstrations you

29

00:01:24,550 --> 00:01:20,640

just ask and i'll help you out so here's

30

00:01:29,109 --> 00:01:26,710

hi commander hatfield my name is sunda

31

00:01:31,030 --> 00:01:29,119

sadiki and i'm in grade five i would

32

00:01:37,510 --> 00:01:31,040

like to know what might be the coolest

33

00:01:42,630 --> 00:01:39,590

good morning sundance the coolest thing

34

00:01:44,710 --> 00:01:42,640

i've ever seen in space let's see um

35

00:01:46,870 --> 00:01:44,720

i think maybe the coolest thing i've

36

00:01:50,469 --> 00:01:46,880

ever seen in space

37

00:01:52,230 --> 00:01:50,479

is sunrise when the sun comes up sundas

38

00:01:55,109 --> 00:01:52,240

it is beautiful the

39

00:01:57,590 --> 00:01:55,119

we come around the world and we sort of

40

00:02:01,510 --> 00:01:57,600

drive into the sunshine and the whole

41

00:02:03,510 --> 00:02:01,520

horizon suddenly glows beautiful orange

42

00:02:06,149 --> 00:02:03,520

and every color in the rainbow and then

43

00:02:08,630 --> 00:02:06,159

the sun bursts up and the space station

44

00:02:11,510 --> 00:02:08,640

out these windows the big solar arrays

45

00:02:14,630 --> 00:02:11,520

suddenly they they glow blood red and

46

00:02:16,630 --> 00:02:14,640

then yellow and orange and then blue as

47

00:02:18,309 --> 00:02:16,640

the as the light shines on them and then

48

00:02:21,350 --> 00:02:18,319

suddenly we're in the daylight and that

49

00:02:24,229 --> 00:02:21,360

happens so fast and it happens 16 times

50

00:02:29,190 --> 00:02:24,239

a day so i think the coolest thing is

51
00:02:32,710 --> 00:02:30,869
great question and because chris

52
00:02:34,470 --> 00:02:32,720
hadfield is in space it takes a few

53
00:02:36,229 --> 00:02:34,480
seconds for the answers for our

54
00:02:39,190 --> 00:02:36,239
questions to get to chris and then for

55
00:02:41,110 --> 00:02:39,200
the message to get back to us

56
00:02:43,990 --> 00:02:41,120
hi commander hatchfield my name is

57
00:02:45,910 --> 00:02:44,000
yofisha siddiqi and i'm in grade three i

58
00:02:47,990 --> 00:02:45,920
would like to know do you think you are

59
00:02:50,390 --> 00:02:48,000
going to find something interesting up

60
00:02:57,670 --> 00:02:50,400
in space that you can use for science if

61
00:03:02,309 --> 00:03:00,550
oh we're finding out all sorts of things

62
00:03:05,589 --> 00:03:02,319
behind me right here is a canadian

63
00:03:07,670 --> 00:03:05,599

experiment that's looking at how to make

64

00:03:09,350 --> 00:03:07,680
materials better like paint where

65

00:03:11,670 --> 00:03:09,360
there's little tiny bits of stuff

66

00:03:13,990 --> 00:03:11,680
dissolved in a liquid that

67

00:03:16,630 --> 00:03:14,000
on earth they behave differently because

68

00:03:18,710 --> 00:03:16,640
of gravity we're also collecting energy

69

00:03:20,630 --> 00:03:18,720
from the universe trying to find out

70

00:03:22,630 --> 00:03:20,640
what the universe is made of we're

71

00:03:25,270 --> 00:03:22,640
collecting dark matter and trying to

72

00:03:27,030 --> 00:03:25,280
understand antimatter and there's a big

73

00:03:28,470 --> 00:03:27,040
magnet on the top of the space station

74

00:03:31,270 --> 00:03:28,480
collect that and we're also

75

00:03:33,509 --> 00:03:31,280
understanding the human body of how to

76

00:03:35,830 --> 00:03:33,519

um how our system works better how we

77

00:03:38,390 --> 00:03:35,840

balance how we see because when you take

78

00:03:40,309 --> 00:03:38,400

away gravity a lot of things change so

79

00:03:42,390 --> 00:03:40,319

it's a really good laboratory to study

80

00:03:43,509 --> 00:03:42,400

the body so i think there's all sorts of

81

00:03:45,110 --> 00:03:43,519

different things we're going to find

82

00:03:47,110 --> 00:03:45,120

here that are going to

83

00:03:56,869 --> 00:03:47,120

help us understand the universe better

84

00:04:02,470 --> 00:03:59,670

hi commander hatfield my name is riley

85

00:04:04,470 --> 00:04:02,480

ford and i am in grade four

86

00:04:11,589 --> 00:04:04,480

i would like to know do you know if

87

00:04:16,870 --> 00:04:13,830

riley that's a good question we've been

88

00:04:19,590 --> 00:04:16,880

looking we have sent probes to pretty

89

00:04:21,590 --> 00:04:19,600

much every planet in the solar system

90

00:04:23,909 --> 00:04:21,600

and a couple of the moons

91

00:04:26,550 --> 00:04:23,919

we've been to a few asteroids we even

92

00:04:29,110 --> 00:04:26,560

have a couple spaceships that have gone

93

00:04:30,710 --> 00:04:29,120

out of our solar system basically beyond

94

00:04:32,950 --> 00:04:30,720

where the sun has an influence it's

95

00:04:36,150 --> 00:04:32,960

right on the edge of that now and we

96

00:04:38,469 --> 00:04:36,160

have not found any living thing anywhere

97

00:04:40,150 --> 00:04:38,479

else except earth and here on the

98

00:04:42,870 --> 00:04:40,160

international space station we're

99

00:04:44,390 --> 00:04:42,880

looking but we did just find out uh

100

00:04:46,629 --> 00:04:44,400

using the hubble telescope and other

101
00:04:49,670 --> 00:04:46,639
telescopes that we think pretty much

102
00:04:52,629 --> 00:04:49,680
every star has planets and even in just

103
00:04:54,390 --> 00:04:52,639
our galaxy there are billions of stars

104
00:04:57,030 --> 00:04:54,400
so there are billions and billions of

105
00:04:59,590 --> 00:04:57,040
planets so it's probably not that there

106
00:05:05,430 --> 00:04:59,600
isn't other living things it's probably

107
00:05:05,440 --> 00:05:15,909
thanks

108
00:05:25,749 --> 00:05:17,909
i would like to know what is the hardest

109
00:05:29,029 --> 00:05:27,430
what's the hardest part of being in

110
00:05:31,909 --> 00:05:29,039
charge of the iss

111
00:05:35,029 --> 00:05:31,919
i think the hardest part is being ready

112
00:05:36,870 --> 00:05:35,039
all the time for things to go badly

113
00:05:38,629 --> 00:05:36,880

because when things are going well it's

114

00:05:39,909 --> 00:05:38,639

it's easy to be in charge when when

115

00:05:41,270 --> 00:05:39,919

everybody's having a good time and

116

00:05:43,430 --> 00:05:41,280

nothing's broken

117

00:05:44,150 --> 00:05:43,440

then it's not so hard being in charge

118

00:05:46,710 --> 00:05:44,160

but

119

00:05:48,870 --> 00:05:46,720

you have to be ready all the time you

120

00:05:51,510 --> 00:05:48,880

can't just be surprised when things go

121

00:05:53,749 --> 00:05:51,520

badly and so i think the hardest part

122

00:05:56,230 --> 00:05:53,759

about being in charge is always being

123

00:05:58,790 --> 00:05:56,240

ready so that you can do the right thing

124

00:06:00,790 --> 00:05:58,800

when things go badly and that might mean

125

00:06:02,390 --> 00:06:00,800

if a meteorite came through this wall

126

00:06:04,390 --> 00:06:02,400

right here now we started losing

127

00:06:06,550 --> 00:06:04,400

pressure or if we had a fire or if

128

00:06:08,790 --> 00:06:06,560

somebody's family got sick or something

129

00:06:10,550 --> 00:06:08,800

like that so that's the hardest part is

130

00:06:16,790 --> 00:06:10,560

always being ready for things to go

131

00:06:19,909 --> 00:06:18,309

okay chris i think we're ready for a

132

00:06:21,670 --> 00:06:19,919

space trick we got more questions but

133

00:06:35,990 --> 00:06:21,680

maybe you could give us a quick space

134

00:06:40,469 --> 00:06:38,230

hi commander hatfield my name is ibrahim

135

00:06:42,469 --> 00:06:40,479

vakil and i'm in grade six i would like

136

00:06:48,710 --> 00:06:42,479

to know how would your body be affected

137

00:06:53,510 --> 00:06:50,950

your body has a lot of changes when you

138

00:06:54,469 --> 00:06:53,520

take away gravity first is

139

00:06:56,230 --> 00:06:54,479

um

140

00:06:58,950 --> 00:06:56,240

you don't know how to balance there's

141

00:07:01,029 --> 00:06:58,960

there's no way to say which way is up

142

00:07:03,990 --> 00:07:01,039

i can go any way i like and it all feels

143

00:07:06,870 --> 00:07:04,000

like i'm right side up it doesn't matter

144

00:07:09,270 --> 00:07:06,880

so it's really confusing at first to

145

00:07:11,589 --> 00:07:09,280

have no up or down your body gets very

146

00:07:13,749 --> 00:07:11,599

confused by that

147

00:07:15,510 --> 00:07:13,759

the next is

148

00:07:18,550 --> 00:07:15,520

gravity doesn't push your blood down to

149

00:07:20,710 --> 00:07:18,560

your feet anymore so

150

00:07:22,870 --> 00:07:20,720

your whole fluid shifts it's like like

151
00:07:24,790 --> 00:07:22,880
standing on your head so you get a big

152
00:07:27,350 --> 00:07:24,800
headache and everything moves up to your

153
00:07:29,350 --> 00:07:27,360
head you get a big swollen head but also

154
00:07:31,589 --> 00:07:29,360
your body decides i don't need a strong

155
00:07:33,350 --> 00:07:31,599
skeleton anymore and so you start to

156
00:07:36,070 --> 00:07:33,360
lose your skeleton

157
00:07:37,670 --> 00:07:36,080
so we we exercise really hard two hours

158
00:07:39,430 --> 00:07:37,680
every day to keep our skeleton our

159
00:07:41,270 --> 00:07:39,440
muscles strong and the rest of it we

160
00:07:43,749 --> 00:07:41,280
just let sort of get used to being in

161
00:07:46,790 --> 00:07:43,759
space my legs got really skinny up here

162
00:07:48,950 --> 00:07:46,800
in space because gravity's gravity's not

163
00:07:50,790 --> 00:07:48,960

pushing the blood down into my legs

164

00:07:52,629 --> 00:07:50,800

there's no extra fluid there

165

00:07:54,390 --> 00:07:52,639

but when i get home it'll all change

166

00:08:07,110 --> 00:07:54,400

again and i'll re-adapt to being an

167

00:08:12,469 --> 00:08:09,510

hi commander hatfield

168

00:08:15,189 --> 00:08:12,479

my name is nikki rodriguez and i am in

169

00:08:18,070 --> 00:08:15,199

grade 2 i would like to know when you

170

00:08:21,270 --> 00:08:18,080

get close to a store what does it really

171

00:08:27,029 --> 00:08:21,280

look like i like to know so i could draw

172

00:08:31,350 --> 00:08:29,350

uh stars come in all different sizes

173

00:08:33,430 --> 00:08:31,360

ours is just a little one the sun is

174

00:08:35,829 --> 00:08:33,440

just kind of a little sort of yellow

175

00:08:37,670 --> 00:08:35,839

star there are red ones there are ones

176

00:08:39,430 --> 00:08:37,680

that look sort of brownish there are

177

00:08:42,149 --> 00:08:39,440

huge white ones there are some that look

178

00:08:43,750 --> 00:08:42,159

sort of blue it depends on on what

179

00:08:44,790 --> 00:08:43,760

chemicals are in them and how strong

180

00:08:46,710 --> 00:08:44,800

they are

181

00:08:48,470 --> 00:08:46,720

but from the space station you know what

182

00:08:51,190 --> 00:08:48,480

they look like they look like

183

00:08:53,990 --> 00:08:51,200

perfect points of light like an

184

00:08:55,030 --> 00:08:54,000

absolutely beautiful perfect diamond of

185

00:08:57,829 --> 00:08:55,040

light

186

00:08:59,990 --> 00:08:57,839

they don't even twinkle just a piercing

187

00:09:01,509 --> 00:09:00,000

brilliant point of light that's what

188

00:09:03,829 --> 00:09:01,519

stars look like from here because

189

00:09:06,150 --> 00:09:03,839

there's nothing in the way in between my

190

00:09:07,670 --> 00:09:06,160

eyes and the star there's there's

191

00:09:12,870 --> 00:09:07,680

nothing to stop the light they're

192

00:09:12,880 --> 00:09:17,990

thanks

193

00:09:22,150 --> 00:09:20,310

hi commander hadfield my name is james

194

00:09:23,750 --> 00:09:22,160

campbell and i'm in grade eight

195

00:09:26,310 --> 00:09:23,760

it's said that when you go up in a

196

00:09:28,630 --> 00:09:26,320

spaceship you move so fast that when you

197

00:09:31,670 --> 00:09:28,640

come back to earth you're a point zero

198

00:09:34,150 --> 00:09:31,680

zero zero zero one seconds younger i

199

00:09:40,150 --> 00:09:34,160

would like to know if that is true and

200

00:09:44,790 --> 00:09:42,710

one of the the smartest people that we

201
00:09:47,030 --> 00:09:44,800
ever produced as a species one of the

202
00:09:48,310 --> 00:09:47,040
smartest humans ever was a guy named

203
00:09:52,790 --> 00:09:48,320
albert

204
00:09:55,110 --> 00:09:52,800
figured that out there was no way to

205
00:09:58,550 --> 00:09:55,120
prove his mathematics but albert figured

206
00:10:01,829 --> 00:09:58,560
it out and he found that if you do the

207
00:10:03,110 --> 00:10:01,839
math the faster you go the slower time

208
00:10:05,269 --> 00:10:03,120
should go

209
00:10:08,069 --> 00:10:05,279
and if you get up to the speed of light

210
00:10:10,069 --> 00:10:08,079
the time slows way way down now light

211
00:10:11,590 --> 00:10:10,079
goes when you know the sun makes light

212
00:10:14,949 --> 00:10:11,600
and it takes a few minutes to get to the

213
00:10:19,110 --> 00:10:14,959

earth but light goes 300 000 kilometers

214

00:10:21,030 --> 00:10:19,120

a second 300 000 kilometers every second

215

00:10:23,430 --> 00:10:21,040

that's how fast light goes

216

00:10:24,470 --> 00:10:23,440

we're only going eight kilometers a

217

00:10:25,269 --> 00:10:24,480

second

218

00:10:27,430 --> 00:10:25,279

so

219

00:10:30,470 --> 00:10:27,440

you guys are going a lot slower than i

220

00:10:32,389 --> 00:10:30,480

am so therefore my time moves very very

221

00:10:35,269 --> 00:10:32,399

slightly differently than yours

222

00:10:37,110 --> 00:10:35,279

but if i was going way faster then if a

223

00:10:39,110 --> 00:10:37,120

second went by for me it might seem like

224

00:10:41,269 --> 00:10:39,120

a minute to you so when i came back to

225

00:10:43,030 --> 00:10:41,279

earth you'd be a lot older than i would

226
00:10:44,949 --> 00:10:43,040
but we're not going anywhere near that

227
00:10:46,870 --> 00:10:44,959
fast and i don't even know if i'll be

228
00:10:49,190 --> 00:10:46,880
able to tell the difference in my life

229
00:10:50,150 --> 00:10:49,200
of .0001

230
00:10:51,910 --> 00:10:50,160
seconds

231
00:10:53,829 --> 00:10:51,920
when we get going faster maybe but for

232
00:10:54,949 --> 00:10:53,839
now we can't really even see the

233
00:11:00,310 --> 00:10:54,959
difference

234
00:11:00,320 --> 00:11:06,230
thanks

235
00:11:10,470 --> 00:11:08,310
hi commander hatfield my name is lisa

236
00:11:12,069 --> 00:11:10,480
who and i'm in grade seven temperature

237
00:11:14,069 --> 00:11:12,079
change and dampness affects the sound

238
00:11:15,670 --> 00:11:14,079

and shape of a guitar i would like to

239

00:11:17,990 --> 00:11:15,680

know does your guitar sound different on

240

00:11:19,190 --> 00:11:18,000

the iss than it does on earth is there

241

00:11:20,949 --> 00:11:19,200

anything you have to change on your

242

00:11:27,110 --> 00:11:20,959

guitar or how you play it to make it

243

00:11:32,230 --> 00:11:29,430

yes uh temperature humidity affect the

244

00:11:33,190 --> 00:11:32,240

guitar a guitar like this one

245

00:11:35,190 --> 00:11:33,200

um

246

00:11:37,670 --> 00:11:35,200

and this is a wooden guitar it's made in

247

00:11:38,550 --> 00:11:37,680

in vancouver it's a larry guitar

248

00:11:40,790 --> 00:11:38,560

but

249

00:11:42,630 --> 00:11:40,800

uh i find up on the space station that i

250

00:11:44,310 --> 00:11:42,640

have to tune it more often

251
00:11:47,350 --> 00:11:44,320
it seems to go out of tune a little more

252
00:11:49,990 --> 00:11:47,360
often partially because of the dry air

253
00:11:52,150 --> 00:11:50,000
up here partially though because i can't

254
00:11:54,150 --> 00:11:52,160
ever set my guitar somewhere i normally

255
00:11:56,949 --> 00:11:54,160
have to hook it somewhere and i hook it

256
00:11:58,870 --> 00:11:56,959
by the tuners and so i constantly have

257
00:12:00,069 --> 00:11:58,880
to tune it but it ends up sounding

258
00:12:19,269 --> 00:12:00,079
pretty good here i'll play it just a

259
00:12:19,279 --> 00:12:27,430
sounds pretty good actually

260
00:12:30,870 --> 00:12:29,030
i don't know if the mic is picking up

261
00:12:33,990 --> 00:12:30,880
the cheers and the applause chris but

262
00:12:34,000 --> 00:12:38,310
thank you

263
00:12:49,190 --> 00:12:41,110

hi commander hatfield how might i become

264

00:12:52,790 --> 00:12:50,949

uh that's a good question how can you

265

00:12:54,710 --> 00:12:52,800

become an astronaut really how can you

266

00:12:56,069 --> 00:12:54,720

become anything

267

00:12:57,750 --> 00:12:56,079

you know how are you going to grow up to

268

00:13:00,790 --> 00:12:57,760

be the principal of chris hadfield

269

00:13:03,190 --> 00:13:00,800

public school or the mayor of milton or

270

00:13:04,949 --> 00:13:03,200

an airline pilot like my dad

271

00:13:06,710 --> 00:13:04,959

or uh whoever you know how are you going

272

00:13:08,069 --> 00:13:06,720

to grow up to be anything part of it

273

00:13:10,710 --> 00:13:08,079

number one is

274

00:13:12,790 --> 00:13:10,720

decide what you might want to be

275

00:13:14,389 --> 00:13:12,800

think about it what might i want to be

276

00:13:16,310 --> 00:13:14,399

because it should be something that's

277

00:13:19,030 --> 00:13:16,320

really exciting to you something that

278

00:13:21,430 --> 00:13:19,040

you really want to do and then

279

00:13:23,910 --> 00:13:21,440

start turning yourself into that person

280

00:13:25,670 --> 00:13:23,920

you can start to turn yourself into an

281

00:13:27,590 --> 00:13:25,680

astronaut today

282

00:13:29,910 --> 00:13:27,600

and it doesn't happen just like that you

283

00:13:32,870 --> 00:13:29,920

can ask jeremy hansen it takes a lot of

284

00:13:34,790 --> 00:13:32,880

years but every single decision you make

285

00:13:36,710 --> 00:13:34,800

turns you a little bit into the person

286

00:13:38,870 --> 00:13:36,720

you're going to be tomorrow and the day

287

00:13:41,430 --> 00:13:38,880

after that and the day after that and so

288

00:13:43,110 --> 00:13:41,440

if you want to be an astronaut you need

289

00:13:45,110 --> 00:13:43,120

to keep your body in shape so you need

290

00:13:46,629 --> 00:13:45,120

to think about you know not letting

291

00:13:48,949 --> 00:13:46,639

yourself get fat think about what you

292

00:13:50,710 --> 00:13:48,959

eat and exercise you need to learn

293

00:13:52,150 --> 00:13:50,720

things so you have to choose what

294

00:13:53,910 --> 00:13:52,160

courses to take and how you're going to

295

00:13:54,949 --> 00:13:53,920

study and what you're going to watch on

296

00:13:57,269 --> 00:13:54,959

tv

297

00:13:59,189 --> 00:13:57,279

and you need to learn how to work and so

298

00:14:02,310 --> 00:13:59,199

you might think about working around the

299

00:14:03,990 --> 00:14:02,320

house or maybe doing a summer job or

300

00:14:06,470 --> 00:14:04,000

getting delivering newspapers or

301
00:14:08,150 --> 00:14:06,480
something and then later on how you know

302
00:14:10,230 --> 00:14:08,160
are you going to go to school what job

303
00:14:12,470 --> 00:14:10,240
are you going to get and day by day it

304
00:14:14,310 --> 00:14:12,480
doesn't just choose to be an astronaut

305
00:14:16,389 --> 00:14:14,320
you have to turn yourself into who you

306
00:14:18,150 --> 00:14:16,399
want to be and so what i recommend is

307
00:14:20,310 --> 00:14:18,160
just start thinking about it and then

308
00:14:21,430 --> 00:14:20,320
realize that the decisions you make

309
00:14:23,829 --> 00:14:21,440
every day

310
00:14:33,110 --> 00:14:23,839
turn you into who you're going to be

311
00:14:37,350 --> 00:14:35,269
hi commander hatfield what gave you the

312
00:14:44,470 --> 00:14:37,360
inspiration of being the most successful

313
00:14:48,550 --> 00:14:46,949

wow uh the most successful canadian

314

00:14:50,949 --> 00:14:48,560

astronaut i don't know if i'm the most

315

00:14:53,269 --> 00:14:50,959

successful canadian astronaut i'm i'm

316

00:14:55,670 --> 00:14:53,279

the one who's in space right now

317

00:14:57,509 --> 00:14:55,680

uh but mark garneau flew three times in

318

00:14:58,389 --> 00:14:57,519

space and he was our first canadian in

319

00:15:00,790 --> 00:14:58,399

space

320

00:15:03,189 --> 00:15:00,800

and julie payet she was the chief

321

00:15:04,710 --> 00:15:03,199

engineer of the space shuttle so she had

322

00:15:06,710 --> 00:15:04,720

to be responsible for everything on the

323

00:15:08,790 --> 00:15:06,720

space shuttle so we've had a lot of very

324

00:15:09,670 --> 00:15:08,800

good successful astronauts

325

00:15:10,389 --> 00:15:09,680

uh

326

00:15:12,310 --> 00:15:10,399

but

327

00:15:13,670 --> 00:15:12,320

the the things that i'm doing now

328

00:15:15,750 --> 00:15:13,680

they're because

329

00:15:18,150 --> 00:15:15,760

i started working at it when i was your

330

00:15:20,710 --> 00:15:18,160

age when i was before i was even 10

331

00:15:22,949 --> 00:15:20,720

years old i decided to be an astronaut

332

00:15:25,430 --> 00:15:22,959

and i started working at it and studying

333

00:15:27,590 --> 00:15:25,440

and thinking about it and and making my

334

00:15:30,949 --> 00:15:27,600

body ready for it and i've been studying

335

00:15:32,470 --> 00:15:30,959

my whole life and training and really

336

00:15:34,949 --> 00:15:32,480

thinking about what i want to do with my

337

00:15:38,069 --> 00:15:34,959

life and then working towards it and now

338

00:15:40,230 --> 00:15:38,079

as a result now i'm old i'm 53 but now

339

00:15:41,269 --> 00:15:40,240

here i am having a chance to live and

340

00:15:42,949 --> 00:15:41,279

work

341

00:15:44,389 --> 00:15:42,959

and play guitar

342

00:15:46,710 --> 00:15:44,399

on board a spaceship and actually

343

00:15:48,870 --> 00:15:46,720

command a spaceship so

344

00:15:50,710 --> 00:15:48,880

i think if there's anything

345

00:15:53,430 --> 00:15:50,720

that would make me a successful

346

00:16:01,509 --> 00:15:53,440

astronaut it's because of pursuing my

347

00:16:01,519 --> 00:16:07,110

thanks

348

00:16:12,069 --> 00:16:10,150

riley hi commander hatfield what is the

349

00:16:18,470 --> 00:16:12,079

first thing you would like to do when

350

00:16:21,430 --> 00:16:19,990

the first thing i'd like to do when i

351

00:16:23,430 --> 00:16:21,440

come back home

352

00:16:25,350 --> 00:16:23,440

is have a hot shower

353

00:16:27,269 --> 00:16:25,360

because on the space station we don't

354

00:16:28,710 --> 00:16:27,279

have any running water

355

00:16:31,030 --> 00:16:28,720

we just have a little tap to get

356

00:16:33,590 --> 00:16:31,040

drinking water out of so when we want to

357

00:16:35,430 --> 00:16:33,600

wash we just have to use washcloths or

358

00:16:37,749 --> 00:16:35,440

little little claws to clean ourselves

359

00:16:39,590 --> 00:16:37,759

off and i really like standing under a

360

00:16:42,069 --> 00:16:39,600

hot shower and having hot water on me

361

00:16:44,150 --> 00:16:42,079

and being able to get clean that way so

362

00:16:46,949 --> 00:16:44,160

that's something i can still talk to my

363

00:16:49,189 --> 00:16:46,959

family from here and i can do good work

364

00:16:50,949 --> 00:16:49,199

and the food is good but i can't have a

365

00:16:56,230 --> 00:16:50,959

hot shower or a bath and that's what

366

00:16:59,030 --> 00:16:57,509

thanks

367

00:17:00,550 --> 00:16:59,040

hey chris we can't help but notice the

368

00:17:15,510 --> 00:17:00,560

windows behind you what do you see when

369

00:17:19,750 --> 00:17:17,669

let's see i

370

00:17:22,390 --> 00:17:19,760

i can see the world

371

00:17:24,390 --> 00:17:22,400

i can see um where we are right now

372

00:17:25,750 --> 00:17:24,400

which is just off the coast of south

373

00:17:28,069 --> 00:17:25,760

america

374

00:17:29,510 --> 00:17:28,079

i can look up and see space but plus

375

00:17:31,830 --> 00:17:29,520

through the window i can see the space

376

00:17:34,630 --> 00:17:31,840

station i can see the big solar rays and

377

00:17:37,270 --> 00:17:34,640

the pieces of the space station but that

378

00:17:39,510 --> 00:17:37,280

way is universe and that way is the

379

00:17:42,470 --> 00:17:39,520

world and the world is this beautiful

380

00:17:44,230 --> 00:17:42,480

big blue curve it's just it's gorgeous

381

00:17:47,270 --> 00:17:44,240

and it's really fun to float to the

382

00:17:48,710 --> 00:17:47,280

window and see south america right there

383

00:17:50,230 --> 00:17:48,720

out your window it's just

384

00:17:52,710 --> 00:17:50,240

it's um

385

00:17:54,630 --> 00:17:52,720

it's like a present like a gift every

386

00:18:02,310 --> 00:17:54,640

time that suddenly gets opened when you

387

00:18:09,590 --> 00:18:04,150

do you miss your family when you're in

388

00:18:14,070 --> 00:18:11,830

that's a good question yes i do

389

00:18:16,549 --> 00:18:14,080

i try and talk to my wife pretty much

390

00:18:18,950 --> 00:18:16,559

every day and i talk to my my kids

391

00:18:20,070 --> 00:18:18,960

pretty often i have three children and

392

00:18:22,870 --> 00:18:20,080

um

393

00:18:24,390 --> 00:18:22,880

i email with them and sometimes i can

394

00:18:27,029 --> 00:18:24,400

talk to them like i'm talking to you

395

00:18:29,270 --> 00:18:27,039

with video and sometimes i can almost

396

00:18:31,110 --> 00:18:29,280

sort of like a skype phone call so i get

397

00:18:33,110 --> 00:18:31,120

to talk to them but i don't get to touch

398

00:18:39,990 --> 00:18:33,120

them i don't get to hug them i don't get

399

00:18:44,070 --> 00:18:41,750

so chris it looks like we only have one

400

00:18:45,590 --> 00:18:44,080

minute left but uh i wondered if you had

401
00:18:47,190 --> 00:18:45,600
anything else you wanted to pass on to

402
00:18:49,270 --> 00:18:47,200
us and we'd love to see a couple more

403
00:18:53,990 --> 00:18:49,280
space tricks before uh before we lose

404
00:18:57,590 --> 00:18:55,510
well okay

405
00:18:59,110 --> 00:18:57,600
this this is just my wrist watch it's

406
00:19:01,029 --> 00:18:59,120
just pretty cool

407
00:19:02,789 --> 00:19:01,039
living in weightlessness it's like it's

408
00:19:06,070 --> 00:19:02,799
like magic it's like you have a

409
00:19:08,710 --> 00:19:06,080
superpower where you can just fly

410
00:19:10,870 --> 00:19:08,720
and jump and soar and zip all over the

411
00:19:11,909 --> 00:19:10,880
place it's it's so much fun being

412
00:19:13,190 --> 00:19:11,919
weightless

413
00:19:15,510 --> 00:19:13,200

um

414

00:19:18,070 --> 00:19:15,520

and i only got here

415

00:19:19,990 --> 00:19:18,080

because number one i decided to that's

416

00:19:22,150 --> 00:19:20,000

what i decided to do with my life and

417

00:19:24,549 --> 00:19:22,160

then number two i worked at it for my

418

00:19:26,470 --> 00:19:24,559

whole life and so i really want to

419

00:19:28,150 --> 00:19:26,480

remind all of the hadfield hawks to

420

00:19:29,430 --> 00:19:28,160

think about that what are you going to

421

00:19:32,390 --> 00:19:29,440

do with your life you're going to grow

422

00:19:34,310 --> 00:19:32,400

up to be something why don't you choose

423

00:19:36,230 --> 00:19:34,320

what you might want to grow up to be and

424

00:19:39,029 --> 00:19:36,240

then start making yourself into that

425

00:19:41,510 --> 00:19:39,039

person you can do it slowly day by day

426

00:19:44,710 --> 00:19:41,520

and with that it is amazing one day at a

427

00:19:46,630 --> 00:19:44,720

time one step at a time it's amazing

428

00:19:48,870 --> 00:19:46,640

where life can lead you and jeremy

429

00:19:51,029 --> 00:19:48,880

hansen there with you and me here on the

430

00:19:53,029 --> 00:19:51,039

space station we are both evidence of

431

00:19:54,950 --> 00:19:53,039

that it was great having a chance to

432

00:19:57,029 --> 00:19:54,960

join you in milton hi to everybody

433

00:19:58,630 --> 00:19:57,039

that's there in the room and uh i'm

434

00:20:00,630 --> 00:19:58,640

gonna do my best to get a good picture

435

00:20:02,710 --> 00:20:00,640

of milton here as soon as the cloud's

436

00:20:10,470 --> 00:20:02,720

clear and we're overhead i look forward

437

00:20:12,950 --> 00:20:12,149

commander hatfield this is principal

438

00:20:14,950 --> 00:20:12,960

mark

439

00:20:16,870 --> 00:20:14,960

on behalf of the students here and the

440

00:20:18,470 --> 00:20:16,880

staff and all the parents and everybody

441

00:20:20,230 --> 00:20:18,480

on earth who had a chance to see this

442

00:20:21,510 --> 00:20:20,240

thank you we wish you all the best on

443

00:20:29,270 --> 00:20:21,520

your mission and look forward to seeing

444

00:20:53,430 --> 00:20:30,630

thank you very much we'll play a little

445

00:20:53,440 --> 00:21:01,669

hi everybody

446

00:21:10,230 --> 00:21:03,430

the station this is houston acr that

447

00:21:14,870 --> 00:21:12,630

thank you chris hadfield public schools

448

00:21:16,390 --> 00:21:14,880

and all the students there international

449

00:21:18,630 --> 00:21:16,400

space station

450

00:21:24,950 --> 00:21:18,640

we now return you to your regularly

451

00:21:29,990 --> 00:21:26,390

thanks clay thanks very much that was