



1
00:00:07,670 --> 00:00:03,669
station this is houston are you ready

2
00:00:11,669 --> 00:00:09,190
houston international space station

3
00:00:13,749 --> 00:00:11,679
ready for the event

4
00:00:15,509 --> 00:00:13,759
canada aviation and space museum this is

5
00:00:20,790 --> 00:00:15,519
mission control houston please call

6
00:00:24,710 --> 00:00:22,870
chris hadfield space station this is

7
00:00:29,669 --> 00:00:24,720
canada air and space museum how do you

8
00:00:34,790 --> 00:00:32,790
canada aviation and space museum david

9
00:00:37,910 --> 00:00:34,800
the space station reads you loud and

10
00:00:49,029 --> 00:00:39,670
we have you loud and clear can anybody

11
00:00:53,110 --> 00:00:50,470
chris i have someone here who would like

12
00:00:59,029 --> 00:00:53,120
to uh introduce our special guest for

13
00:01:03,110 --> 00:01:01,110

welcome to ottawa

14

00:01:05,350 --> 00:01:03,120

boys and girls

15

00:01:08,149 --> 00:01:05,360

please help me welcome

16

00:01:10,550 --> 00:01:08,159

this is laureen harper and her husband

17

00:01:30,069 --> 00:01:10,560

the 22nd prime minister of canada the

18

00:01:30,079 --> 00:01:45,510

this is

19

00:01:49,749 --> 00:01:47,910

we're going to be ready in a moment

20

00:01:52,149 --> 00:01:49,759

you all excited to be here kids can i

21

00:01:54,469 --> 00:01:52,159

ever can the space space station hear a

22

00:02:00,630 --> 00:01:54,479

big cheer from all of you big chair come

23

00:02:00,640 --> 00:02:04,789

have we got the commander ready to go

24

00:02:08,550 --> 00:02:06,789

can you hear me commander

25

00:02:10,469 --> 00:02:08,560

absolutely

26
00:02:14,710 --> 00:02:10,479
i hear you loud and clear i hope you can

27
00:02:19,430 --> 00:02:16,790
and i can see you it's a great picture

28
00:02:20,150 --> 00:02:19,440
it's great to hear you uh

29
00:02:32,790 --> 00:02:20,160
uh

30
00:02:35,910 --> 00:02:34,550
i just want to congratulate you on this

31
00:02:37,670 --> 00:02:35,920
historic achievement you're the first

32
00:02:39,110 --> 00:02:37,680
canadian ever to command the

33
00:02:43,830 --> 00:02:39,120
international space station we're all

34
00:02:48,710 --> 00:02:47,350
mercedes here thank you very much

35
00:02:51,670 --> 00:02:48,720
after

36
00:02:53,910 --> 00:02:51,680
gosh 35 years of service to my country

37
00:02:55,670 --> 00:02:53,920
and to my government i uh

38
00:02:57,910 --> 00:02:55,680

i am so incredibly proud to have the

39

00:02:59,190 --> 00:02:57,920

chance to do this now

40

00:03:01,270 --> 00:02:59,200

uh

41

00:03:03,430 --> 00:03:01,280

i get to to go from

42

00:03:05,430 --> 00:03:03,440

vancouver island and see the arctic and

43

00:03:06,470 --> 00:03:05,440

see the maritimes in 10 minutes coast to

44

00:03:09,750 --> 00:03:06,480

coast

45

00:03:10,869 --> 00:03:09,760

and it uh it just fills me with pride

46

00:03:12,949 --> 00:03:10,879

and also

47

00:03:15,430 --> 00:03:12,959

as a result of technology i get to link

48

00:03:16,470 --> 00:03:15,440

with canadians coast to coast of all

49

00:03:17,430 --> 00:03:16,480

ages

50

00:03:20,630 --> 00:03:17,440

and

51
00:03:23,030 --> 00:03:20,640
i ask every canadian from the machine

52
00:03:25,190 --> 00:03:23,040
shops that help build this place to the

53
00:03:27,589 --> 00:03:25,200
software labs to the uh

54
00:03:29,430 --> 00:03:27,599
the inventors and the creative minds

55
00:03:32,390 --> 00:03:29,440
that made all this possible

56
00:03:33,670 --> 00:03:32,400
uh when they look up and see

57
00:03:36,149 --> 00:03:33,680
the point of light that is the

58
00:03:38,949 --> 00:03:36,159
international space station

59
00:03:43,350 --> 00:03:38,959
all canadians should take pride in in

60
00:03:47,190 --> 00:03:45,190
well it must be a tremendous experience

61
00:03:48,710 --> 00:03:47,200
i know as i fly across the country i'm

62
00:03:50,550 --> 00:03:48,720
always amazed

63
00:03:52,390 --> 00:03:50,560

how big it is

64

00:03:54,630 --> 00:03:52,400

how empty most of it is but for you to

65

00:03:56,789 --> 00:03:54,640

be able to see it in 10 minutes is just

66

00:03:59,429 --> 00:03:56,799

it's really an incredible experience we

67

00:04:02,070 --> 00:03:59,439

can only dream about now

68

00:04:03,670 --> 00:04:02,080

commander i have a few questions myself

69

00:04:05,270 --> 00:04:03,680

but we have a lot of kids here who want

70

00:04:07,270 --> 00:04:05,280

to ask questions

71

00:04:09,190 --> 00:04:07,280

so i'm going to go straight to them

72

00:04:10,309 --> 00:04:09,200

first because i know we don't have a lot

73

00:04:12,789 --> 00:04:10,319

of time

74

00:04:15,509 --> 00:04:12,799

today we have a very brief hook up so

75

00:04:17,270 --> 00:04:15,519

let me begin with emerson bartel

76

00:04:21,430 --> 00:04:17,280

children's wish foundation is going to

77

00:04:26,550 --> 00:04:25,030

is there anything that you fear in space

78

00:04:32,230 --> 00:04:26,560

or something that makes you

79

00:04:37,749 --> 00:04:35,909

emerson i'm afraid when i i don't have a

80

00:04:39,990 --> 00:04:37,759

plan when i can't get ready for

81

00:04:41,350 --> 00:04:40,000

something you know there are always

82

00:04:43,350 --> 00:04:41,360

things happening

83

00:04:44,870 --> 00:04:43,360

and some of them are scary if you're not

84

00:04:46,790 --> 00:04:44,880

ready

85

00:04:48,469 --> 00:04:46,800

so what i always try and do is no matter

86

00:04:51,030 --> 00:04:48,479

what's happening whether it's something

87

00:04:53,990 --> 00:04:51,040

simple or something dangerous i prepare

88

00:04:56,070 --> 00:04:54,000

for it i think about it i visualize

89

00:04:58,230 --> 00:04:56,080

what i can do and therefore what i'm

90

00:05:01,029 --> 00:04:58,240

going to do and there then no matter

91

00:05:02,710 --> 00:05:01,039

what it is whether i'm facing it it

92

00:05:05,029 --> 00:05:02,720

makes me feel better about it and it

93

00:05:06,469 --> 00:05:05,039

stops me being afraid of it and that's

94

00:05:08,710 --> 00:05:06,479

whether i'm

95

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

piloting a spaceship or commanding the

96

00:05:12,629 --> 00:05:10,639

space station or speaking with the prime

97

00:05:14,629 --> 00:05:12,639

minister of canada or talking with you

98

00:05:19,909 --> 00:05:14,639

emerson i just try and get ready and

99

00:05:24,710 --> 00:05:22,150

uh it's lorraine harper here i would

100

00:05:26,629 --> 00:05:24,720

like to introduce robbie pasmore of

101

00:05:28,310 --> 00:05:26,639

the children's wish foundation to ask

102

00:05:33,270 --> 00:05:28,320

the commander a question come on up

103

00:05:40,550 --> 00:05:35,590

what what do you do when you get sick in

104

00:05:45,189 --> 00:05:42,469

thank you robbie we try not to get sick

105

00:05:46,710 --> 00:05:45,199

of course um you can't catch a cold up

106

00:05:47,909 --> 00:05:46,720

here because there's no one to catch a

107

00:05:50,310 --> 00:05:47,919

cold from

108

00:05:52,469 --> 00:05:50,320

uh but everybody on board is trained as

109

00:05:54,469 --> 00:05:52,479

an emergency medical technician so i can

110

00:05:56,950 --> 00:05:54,479

do all basic medicine i've worked in a

111

00:05:58,469 --> 00:05:56,960

hospital in the emergency room taking

112

00:06:00,550 --> 00:05:58,479

care of people as they come in with all

113

00:06:02,550 --> 00:06:00,560

different injuries so i i really

114

00:06:05,350 --> 00:06:02,560

understand the basics that i need to

115

00:06:07,909 --> 00:06:05,360

know right here under my feet is our is

116

00:06:09,749 --> 00:06:07,919

our emergency medical kit and pharmacy

117

00:06:11,270 --> 00:06:09,759

uh behind me is like a stretcher that if

118

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

someone got sick we could strap them to

119

00:06:15,909 --> 00:06:13,600

that stretcher and then we also on board

120

00:06:18,309 --> 00:06:15,919

with our crew we have dr tom marshburn a

121

00:06:20,390 --> 00:06:18,319

medical doctor and so

122

00:06:22,309 --> 00:06:20,400

dr tom could take care of each of us but

123

00:06:24,790 --> 00:06:22,319

if tom got sick then then i'd be taking

124

00:06:26,790 --> 00:06:24,800

care of tom so we're ready for it we try

125

00:06:28,710 --> 00:06:26,800

not to get sick we're careful but if we

126

00:06:47,110 --> 00:06:28,720

need to uh we're ready to take care of

127

00:06:50,629 --> 00:06:49,029

is going to ask a question on behalf of

128

00:06:51,830 --> 00:06:50,639

elizabeth from centennial public school

129

00:06:53,029 --> 00:06:51,840

in kitchener

130

00:06:57,990 --> 00:06:53,039

canada

131

00:07:06,150 --> 00:06:58,000

to be a partner in the international

132

00:07:10,390 --> 00:07:07,990

it is very important

133

00:07:14,309 --> 00:07:10,400

for many reasons first it's a unique

134

00:07:18,150 --> 00:07:16,390

a matter of gravity

135

00:07:19,350 --> 00:07:18,160

so we're unfortunate

136

00:07:23,909 --> 00:07:19,360

international

137

00:07:25,270 --> 00:07:23,919

impossible to do all kind of experiments

138

00:07:34,950 --> 00:07:25,280

that are not

139

00:07:39,430 --> 00:07:37,110

with respect to aspiration

140

00:07:41,749 --> 00:07:39,440

for the young canadian

141

00:07:44,390 --> 00:07:41,759

possibility uh to do something that is

142

00:07:45,830 --> 00:07:44,400

on the border of the realm of

143

00:07:47,909 --> 00:07:45,840

possibility

144

00:07:49,990 --> 00:07:47,919

and it isn't necessarily too necessary

145

00:07:51,990 --> 00:07:50,000

to dream

146

00:07:54,309 --> 00:07:52,000

and for young canadians to have an

147

00:07:56,469 --> 00:07:54,319

opportunity like this to have such a

148

00:07:58,230 --> 00:07:56,479

laboratory like this

149

00:08:00,469 --> 00:07:58,240

and that's the second thing that is

150

00:08:02,309 --> 00:08:00,479

important for canadians and the canadian

151
00:08:04,550 --> 00:08:02,319
people in general

152
00:08:06,150 --> 00:08:04,560
i would like to introduce darcy mcrae

153
00:08:08,550 --> 00:08:06,160
children's wish to ask commander

154
00:08:11,589 --> 00:08:08,560
hadfield a question on behalf of henry

155
00:08:19,350 --> 00:08:11,599
who's 12 from wellington hall academy in

156
00:08:23,270 --> 00:08:21,830
good afternoon commander hatfield here's

157
00:08:25,189 --> 00:08:23,280
the question

158
00:08:26,710 --> 00:08:25,199
does canada look like you would expect

159
00:08:27,749 --> 00:08:26,720
it to from space

160
00:08:28,790 --> 00:08:27,759
does it look

161
00:08:30,950 --> 00:08:28,800
just like

162
00:08:33,509 --> 00:08:30,960
it does on a map or is there anything

163
00:08:39,269 --> 00:08:33,519

that is really unique or stands out

164

00:08:41,750 --> 00:08:40,709

uh thank you for the question when

165

00:08:44,070 --> 00:08:41,760

you're

166

00:08:45,910 --> 00:08:44,080

going this fast and seeing so much of it

167

00:08:48,470 --> 00:08:45,920

when i'm overhead of winnipeg i can

168

00:08:50,630 --> 00:08:48,480

still look back and see uh

169

00:08:53,509 --> 00:08:50,640

be i can see the rockies and i can see

170

00:08:55,190 --> 00:08:53,519

all the way to ottawa basically and

171

00:08:56,790 --> 00:08:55,200

to be able to see the country that way

172

00:08:59,190 --> 00:08:56,800

as we race across

173

00:09:01,990 --> 00:08:59,200

what is different than i expected was

174

00:09:05,030 --> 00:09:02,000

the size of it we live in an enormous

175

00:09:06,870 --> 00:09:05,040

very rich land so much opportunity and

176

00:09:09,350 --> 00:09:06,880

capability for each of us

177

00:09:11,509 --> 00:09:09,360

but then as you come across especially

178

00:09:13,350 --> 00:09:11,519

at night each of the places where we

179

00:09:16,070 --> 00:09:13,360

where we gather together the cities and

180

00:09:17,430 --> 00:09:16,080

the towns even the farms they show up as

181

00:09:19,990 --> 00:09:17,440

as little

182

00:09:21,910 --> 00:09:20,000

places of warmth of little pockets of

183

00:09:22,870 --> 00:09:21,920

light and as i travel across the

184

00:09:24,790 --> 00:09:22,880

prairies

185

00:09:26,790 --> 00:09:24,800

and uh and then come around the bigger

186

00:09:28,710 --> 00:09:26,800

cities of course the the provincial

187

00:09:31,030 --> 00:09:28,720

capitals and all around lake ontario and

188

00:09:34,070 --> 00:09:31,040

ottawa and montreal um

189

00:09:36,389 --> 00:09:34,080

you can see the the level of activity it

190

00:09:38,550 --> 00:09:36,399

just strikes you the huge vast

191

00:09:39,990 --> 00:09:38,560

capability the raw capability of our

192

00:09:42,550 --> 00:09:40,000

country and then the way that we're

193

00:09:44,070 --> 00:09:42,560

using it and then when you come the last

194

00:09:46,710 --> 00:09:44,080

place i see in canada always is the

195

00:09:50,389 --> 00:09:46,720

maritimes coming across cape breton and

196

00:09:52,710 --> 00:09:50,399

newfoundland and that solid rugged rock

197

00:09:54,949 --> 00:09:52,720

that is our east coast uh it's a great

198

00:09:57,030 --> 00:09:54,959

way every time to wave furl to canada

199

00:09:59,910 --> 00:09:57,040

until we come around the world again

200

00:10:02,230 --> 00:09:59,920

it's it just warms my heart every time

201
00:10:03,829 --> 00:10:02,240
to see the potential of our country and

202
00:10:09,509 --> 00:10:03,839
to see the way that that we live there

203
00:10:13,190 --> 00:10:11,590
thank you

204
00:10:16,550 --> 00:10:13,200
we're going to have a question now from

205
00:10:16,560 --> 00:10:28,949
thomas

206
00:10:33,350 --> 00:10:30,389
which country is the most colored

207
00:10:36,790 --> 00:10:33,360
looking from space and do you miss your

208
00:10:43,110 --> 00:10:38,310
we said the question

209
00:10:47,030 --> 00:10:45,350
for me it's the bahamas islands that are

210
00:10:50,630 --> 00:10:47,040
the most colored

211
00:10:54,069 --> 00:10:50,640
corey because of the barrier reef the

212
00:10:58,230 --> 00:10:54,079
colors are are unbelievable

213
00:11:02,870 --> 00:11:00,389

it's like a rainbow under the water

214

00:11:05,350 --> 00:11:02,880

and every time it strikes my eyes it's

215

00:11:07,990 --> 00:11:05,360

incredible it's shiny

216

00:11:11,030 --> 00:11:08,000

as for the second question

217

00:11:12,230 --> 00:11:11,040

are sleeping here in space

218

00:11:14,230 --> 00:11:12,240

when during

219

00:11:17,030 --> 00:11:14,240

you don't need a bed really you don't

220

00:11:19,590 --> 00:11:17,040

need a pillow it's so comfortable

221

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

relaxing you know it's possible to be

222

00:11:24,790 --> 00:11:22,399

totally relaxed every single muscle is

223

00:11:26,790 --> 00:11:24,800

totally relaxed

224

00:11:28,470 --> 00:11:26,800

so for me it's even better than than to

225

00:11:31,190 --> 00:11:28,480

be in my bedroom and

226

00:11:33,509 --> 00:11:31,200

be my bad owner

227

00:11:37,350 --> 00:11:33,519

so this is a marvelous place to sleep in

228

00:11:41,350 --> 00:11:39,110

to ask commander hadfield a question on

229

00:11:43,509 --> 00:11:41,360

behalf of the grade three class of south

230

00:11:45,350 --> 00:11:43,519

poplar elementary abbotsford british

231

00:11:48,230 --> 00:11:45,360

columbia

232

00:11:50,230 --> 00:11:48,240

hello commander hanfield

233

00:11:53,190 --> 00:11:50,240

hello commander hatfield

234

00:11:55,750 --> 00:11:53,200

um here's my question question

235

00:11:57,910 --> 00:11:55,760

what advice do you have for the aspiring

236

00:12:03,509 --> 00:11:57,920

astronauts in our class and across the

237

00:12:06,230 --> 00:12:04,470

okay

238

00:12:09,590 --> 00:12:06,240

three things

239

00:12:11,430 --> 00:12:09,600

number one is education and i don't just

240

00:12:13,030 --> 00:12:11,440

mean uh

241

00:12:16,069 --> 00:12:13,040

reading it you know what you're told in

242

00:12:19,509 --> 00:12:16,079

school education is learning things

243

00:12:20,389 --> 00:12:19,519

education is is desiring to do know

244

00:12:24,870 --> 00:12:20,399

things

245

00:12:26,550 --> 00:12:24,880

to always try and understand what's

246

00:12:28,470 --> 00:12:26,560

going around you constantly educate

247

00:12:31,110 --> 00:12:28,480

yourself number two is take care of your

248

00:12:32,470 --> 00:12:31,120

body you only get one don't you know be

249

00:12:33,509 --> 00:12:32,480

think about what you're eating when you

250

00:12:37,829 --> 00:12:33,519

eat

251
00:12:40,069 --> 00:12:37,839
and exercise your body take the stairs

252
00:12:41,750 --> 00:12:40,079
carry things don't drag things exercise

253
00:12:44,629 --> 00:12:41,760
your body it doesn't take much just keep

254
00:12:46,310 --> 00:12:44,639
yourself in shape and then the third is

255
00:12:48,550 --> 00:12:46,320
make decisions

256
00:12:50,710 --> 00:12:48,560
choose things and at first you may not

257
00:12:53,750 --> 00:12:50,720
make all good decisions but

258
00:12:55,190 --> 00:12:53,760
decision making is a skill and and you

259
00:12:56,710 --> 00:12:55,200
can learn it and get better at it and

260
00:12:58,150 --> 00:12:56,720
the more decisions you make the better

261
00:12:59,990 --> 00:12:58,160
you will be at

262
00:13:01,190 --> 00:13:00,000
to making them and with those three

263
00:13:03,509 --> 00:13:01,200

things

264

00:13:05,590 --> 00:13:03,519

education a healthy body and the ability

265

00:13:07,670 --> 00:13:05,600

to make good decisions you will succeed

266

00:13:09,509 --> 00:13:07,680

no matter what you do in life

267

00:13:13,430 --> 00:13:09,519

including maybe have a chance to fly in

268

00:13:18,389 --> 00:13:14,949

that does sound like good advice for a

269

00:13:18,399 --> 00:13:25,509

come on

270

00:13:30,389 --> 00:13:27,110

he's going to ask a question on behalf

271

00:13:32,389 --> 00:13:30,399

of ezra a five-year-old boy

272

00:13:37,750 --> 00:13:32,399

from the elizabeth ziegler school in

273

00:13:46,069 --> 00:13:41,189

can you see the planet turn

274

00:13:46,079 --> 00:14:00,629

not directly

275

00:14:07,509 --> 00:14:03,829

so as far as the earth turning

276

00:14:11,750 --> 00:14:09,509

every time we look at the earth again

277

00:14:13,670 --> 00:14:11,760

there's just uh maybe a country or part

278

00:14:17,350 --> 00:14:13,680

of the earth that has moved a little bit

279

00:14:19,750 --> 00:14:17,360

so not directly but indirectly yes

280

00:14:23,590 --> 00:14:19,760

it's possible to see the the earth

281

00:14:26,790 --> 00:14:23,600

go around itself from the space station

282

00:14:29,030 --> 00:14:26,800

i would like to introduce alexa hellyer

283

00:14:32,150 --> 00:14:29,040

to ask commander hadfield a question on

284

00:14:35,189 --> 00:14:32,160

behalf of colin grade 6 scott bateman

285

00:14:39,590 --> 00:14:37,430

hi commander hatfield is there

286

00:14:45,670 --> 00:14:39,600

turbulence in space and can you feel it

287

00:14:49,030 --> 00:14:48,230

there is no turbulence up here at all it

288

00:14:51,990 --> 00:14:49,040

is

289

00:14:54,230 --> 00:14:52,000

smoother than silk it's like

290

00:14:56,790 --> 00:14:54,240

if you've ever been skating on perfect

291

00:14:58,790 --> 00:14:56,800

new ice just after the zamboni goes and

292

00:15:02,629 --> 00:14:58,800

everything you just slide across the ice

293

00:15:04,949 --> 00:15:02,639

and you don't feel even a ripple or uh

294

00:15:06,629 --> 00:15:04,959

or maybe down a perfect slide nice and

295

00:15:08,389 --> 00:15:06,639

wet where you just everything's just

296

00:15:09,829 --> 00:15:08,399

beautifully smooth it's like that

297

00:15:13,590 --> 00:15:09,839

there's never a bump

298

00:15:15,670 --> 00:15:13,600

you can float and fly and

299

00:15:17,750 --> 00:15:15,680

it's sort of like magic but no it's

300

00:15:24,629 --> 00:15:17,760

perfectly comfortable you should try it

301

00:15:29,749 --> 00:15:26,710

i'd like to introduce commander uh

302

00:15:32,470 --> 00:15:29,759

matthew broughton uh matthew is bringing

303

00:15:33,590 --> 00:15:32,480

us a question on behalf of a twitter

304

00:15:35,829 --> 00:15:33,600

account

305

00:15:38,230 --> 00:15:35,839

steffi poo 446 i'm going to assume

306

00:15:40,790 --> 00:15:38,240

that's not a real name

307

00:15:43,590 --> 00:15:40,800

she is in centennial public school also

308

00:15:45,350 --> 00:15:43,600

in waterloo ontario matthew is this

309

00:15:51,350 --> 00:15:45,360

possible to land on mars in the near

310

00:15:56,470 --> 00:15:54,310

uh steffy and matthew yes it in fact of

311

00:15:57,990 --> 00:15:56,480

course i'm sure as you know canada is

312

00:16:00,790 --> 00:15:58,000

already on mars

313

00:16:03,350 --> 00:16:00,800

um we have scientific experiments

314

00:16:07,030 --> 00:16:03,360

scientific hardware that was built by

315

00:16:08,870 --> 00:16:07,040

canadians um smart educated engineers

316

00:16:10,790 --> 00:16:08,880

and scientists that is helping us to

317

00:16:12,629 --> 00:16:10,800

understand mars right now because you

318

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

can't understand

319

00:16:17,350 --> 00:16:14,480

the human body by looking at just one

320

00:16:19,110 --> 00:16:17,360

person you can't understand planets just

321

00:16:21,509 --> 00:16:19,120

by looking at one

322

00:16:22,870 --> 00:16:21,519

by understanding the history of mars and

323

00:16:24,389 --> 00:16:22,880

the history of the earth and the others

324

00:16:26,629 --> 00:16:24,399

we can really start to get a feel for

325

00:16:28,389 --> 00:16:26,639

what's in store for earth itself

326

00:16:31,509 --> 00:16:28,399

but i think probably your question is

327

00:16:32,870 --> 00:16:31,519

could people go to mars and yes

328

00:16:34,870 --> 00:16:32,880

things we've learned on the space

329

00:16:36,870 --> 00:16:34,880

station how to stay in space for months

330

00:16:38,949 --> 00:16:36,880

and months how to build

331

00:16:41,910 --> 00:16:38,959

things what equipment to build it out of

332

00:16:43,509 --> 00:16:41,920

yes but right now it's sort of like

333

00:16:45,749 --> 00:16:43,519

sailing around the world hundreds of

334

00:16:48,150 --> 00:16:45,759

years ago or flying across the atlantic

335

00:16:50,069 --> 00:16:48,160

100 years ago it's just barely possible

336

00:16:52,230 --> 00:16:50,079

but it would be very risky and so

337

00:16:54,069 --> 00:16:52,240

therefore quite expensive

338

00:16:56,629 --> 00:16:54,079

and i think what we need to do is invent

339

00:16:58,470 --> 00:16:56,639

some more things we need canadians like

340

00:17:01,189 --> 00:16:58,480

you to come up with great inventions

341

00:17:03,189 --> 00:17:01,199

like the canadarm or like

342

00:17:04,789 --> 00:17:03,199

microflow which is a

343

00:17:06,870 --> 00:17:04,799

a great canadian experiment that i'm

344

00:17:07,829 --> 00:17:06,880

working on just came up last week we

345

00:17:09,750 --> 00:17:07,839

need

346

00:17:11,590 --> 00:17:09,760

inventions that will make travel to mars

347

00:17:13,750 --> 00:17:11,600

safer and faster

348

00:17:15,510 --> 00:17:13,760

energy sources and engines so yes we

349

00:17:17,189 --> 00:17:15,520

could do it if we had to and i'm sure

350

00:17:19,270 --> 00:17:17,199

we'll do it in the future it's just a

351

00:17:20,470 --> 00:17:19,280

matter of things that we can invent

352

00:17:25,669 --> 00:17:20,480

we're limited just by our own

353

00:17:30,310 --> 00:17:28,230

i would like to introduce ava gandia to

354

00:17:32,470 --> 00:17:30,320

ask commander hadfield a question on

355

00:17:36,549 --> 00:17:32,480

behalf of jacqueline from york house

356

00:17:39,669 --> 00:17:38,390

hello commander catfield my first

357

00:17:41,350 --> 00:17:39,679

question is what has been the most

358

00:17:42,789 --> 00:17:41,360

interesting part of being an astronaut

359

00:17:44,470 --> 00:17:42,799

and going to space

360

00:17:52,070 --> 00:17:44,480

and have you had any interesting

361

00:17:54,549 --> 00:17:53,510

i think i could answer both those

362

00:17:56,549 --> 00:17:54,559

questions

363

00:17:59,430 --> 00:17:56,559

with the same answer actually

364

00:18:01,590 --> 00:17:59,440

and being inside a spaceship is

365

00:18:03,350 --> 00:18:01,600

wonderful magnificent being weightless

366

00:18:05,510 --> 00:18:03,360

doing all of this experiments being here

367

00:18:07,430 --> 00:18:05,520

with a great group of people wonderful

368

00:18:08,789 --> 00:18:07,440

motivated humble people

369

00:18:09,990 --> 00:18:08,799

but

370

00:18:12,630 --> 00:18:10,000

the most

371

00:18:14,549 --> 00:18:12,640

magnificent experience was going outside

372

00:18:17,110 --> 00:18:14,559

putting on the big white spacesuit and

373

00:18:18,630 --> 00:18:17,120

walking in space and the reason is

374

00:18:20,789 --> 00:18:18,640

not only was i out there building

375

00:18:23,029 --> 00:18:20,799

canadarm2 and bolting it together and

376

00:18:24,470 --> 00:18:23,039

bringing canada's robot arm to life

377

00:18:27,430 --> 00:18:24,480

but

378

00:18:30,230 --> 00:18:27,440

uh i was alone with these two hands and

379

00:18:32,789 --> 00:18:30,240

these two eyes in between the world on

380

00:18:35,190 --> 00:18:32,799

one side turning in all of its colors

381

00:18:36,549 --> 00:18:35,200

and the universe on the other in all of

382

00:18:39,110 --> 00:18:36,559

its

383

00:18:41,430 --> 00:18:39,120

absolutely fundamental blackness and the

384

00:18:43,750 --> 00:18:41,440

rest of everything and i was there

385

00:18:45,909 --> 00:18:43,760

holding on to this vehicle this space

386

00:18:47,590 --> 00:18:45,919

station with one hand one of the first

387

00:18:49,990 --> 00:18:47,600

humans to ever be able to

388

00:18:51,590 --> 00:18:50,000

see our our world that way

389

00:18:52,630 --> 00:18:51,600

and to get a sense of the perspective

390

00:18:54,390 --> 00:18:52,640

myself

391

00:18:57,350 --> 00:18:54,400

it it'll be with me always it is a

392

00:18:59,430 --> 00:18:57,360

magnificent experience to see the world

393

00:19:00,950 --> 00:18:59,440

and to see the universe that way i was

394

00:19:02,950 --> 00:19:00,960

the first canadian to ever do it but i'm

395

00:19:05,830 --> 00:19:02,960

not the last i hope more canadians

396

00:19:11,669 --> 00:19:05,840

including you get a chance to to see the

397

00:19:15,350 --> 00:19:13,990

thank you commander uh that was our last

398

00:19:17,909 --> 00:19:15,360

student question and i see your

399

00:19:19,669 --> 00:19:17,919

colleagues david sanchez and jeremy

400

00:19:20,549 --> 00:19:19,679

hansen have appeared which means we're

401
00:19:23,669 --> 00:19:20,559
about

402
00:19:25,750 --> 00:19:23,679
uh due to wrap this up so we i know we

403
00:19:30,390 --> 00:19:25,760
all want to uh thank you for spending

404
00:19:38,789 --> 00:19:32,789
you have a pioneer spirit

405
00:19:45,830 --> 00:19:41,350
and it's a great exploration

406
00:19:49,750 --> 00:19:47,350
congratulate you

407
00:19:51,270 --> 00:19:49,760
on your success and we wish you great

408
00:19:53,270 --> 00:19:51,280
fortune

409
00:19:55,029 --> 00:19:53,280
i just want to say that you represent

410
00:19:56,470 --> 00:19:55,039
the the kind of spirit we had in the

411
00:19:57,990 --> 00:19:56,480
explorers who

412
00:19:59,510 --> 00:19:58,000
went out and found our country and built

413
00:20:01,270 --> 00:19:59,520

our country and you're carrying that

414

00:20:04,710 --> 00:20:01,280

into a modern age we're all very proud

415

00:20:07,110 --> 00:20:04,720

of you we wish you uh good luck and

416

00:20:08,630 --> 00:20:07,120

success we have all these kids who've

417

00:20:10,149 --> 00:20:08,640

done such a great job asking the

418

00:20:12,149 --> 00:20:10,159

questions other children who are with

419

00:20:14,230 --> 00:20:12,159

them we have your parents here so let's