



1  
00:00:05,910 --> 00:00:02,149  
station this is houston are you ready

2  
00:00:05,920 --> 00:00:10,310  
station is ready for the event

3  
00:00:14,549 --> 00:00:12,390  
european space agency this is mission

4  
00:00:21,510 --> 00:00:14,559  
control houston please call station for

5  
00:00:21,520 --> 00:00:25,109  
one second

6  
00:00:29,750 --> 00:00:27,070  
station this is

7  
00:00:35,990 --> 00:00:29,760  
iso from the world

8  
00:00:40,069 --> 00:00:38,630  
hello to the world museum in liverpool i

9  
00:00:41,990 --> 00:00:40,079  
hear you loud and clear and welcome

10  
00:00:44,229 --> 00:00:42,000  
aboard the international space station

11  
00:00:46,229 --> 00:00:44,239  
to you and to everybody who's following

12  
00:00:58,950 --> 00:00:46,239  
the cosmic classroom on the internet

13  
00:01:04,390 --> 00:01:02,229

thank you tim i lead now the world to

14

00:01:11,270 --> 00:01:04,400

kevin fong who will be guiding you

15

00:01:16,469 --> 00:01:14,630

we're um hugely excited here to join you

16

00:01:20,789 --> 00:01:16,479

um brush me into see you up there you're

17

00:01:23,830 --> 00:01:20,799

looking fantastic um listen i am going

18

00:01:26,149 --> 00:01:23,840

to start with our first video question

19

00:01:27,830 --> 00:01:26,159

which is from harry tim so here's your

20

00:01:35,670 --> 00:01:27,840

first question tim it's fantastic to see

21

00:01:35,680 --> 00:01:39,749

i hope here's your first question

22

00:01:44,069 --> 00:01:42,149

okay i'm gonna switch microphones to tim

23

00:01:47,429 --> 00:01:44,079

uh and we're just cueing up your first

24

00:01:52,630 --> 00:01:47,439

video question from harry

25

00:01:52,640 --> 00:01:58,950

yeah you're just showing off now

26

00:02:02,950 --> 00:02:00,550

um

27

00:02:05,030 --> 00:02:02,960

okay so i can't quite get the video up

28

00:02:06,310 --> 00:02:05,040

from harry tim

29

00:02:10,630 --> 00:02:06,320

don't do that you're just making me look

30

00:02:14,070 --> 00:02:12,550

okay so i don't know that where this

31

00:02:16,710 --> 00:02:14,080

video's gone tim we're gonna go to the

32

00:02:20,070 --> 00:02:16,720

second question and the second

33

00:02:23,910 --> 00:02:20,080

uh i don't have the question um so we're

34

00:02:26,070 --> 00:02:23,920

gonna go to the first say again

35

00:02:28,150 --> 00:02:26,080

okay so so tim oh here we go here's our

36

00:02:30,309 --> 00:02:28,160

first question from harry

37

00:02:34,309 --> 00:02:30,319

five years old

38

00:02:35,589 --> 00:02:34,319

what can you say of your windows

39

00:02:39,110 --> 00:02:35,599

so tim what can you see out of your

40

00:02:41,190 --> 00:02:39,120

windows hey harry great talking to you

41

00:02:51,110 --> 00:02:41,200

well listen harry i've got a window

42

00:02:56,630 --> 00:02:53,990

okay harry at the moment we are in the

43

00:02:57,509 --> 00:02:56,640

middle of the atlantic ocean

44

00:03:00,550 --> 00:02:57,519

but

45

00:03:02,390 --> 00:03:00,560

i can see that we are coming up on the

46

00:03:04,790 --> 00:03:02,400

coast of africa

47

00:03:07,030 --> 00:03:04,800

and uh africa is a beautiful country to

48

00:03:09,990 --> 00:03:07,040

look at from space because you get the

49

00:03:12,710 --> 00:03:10,000

wonderful desert areas the sahara desert

50

00:03:14,630 --> 00:03:12,720

beautiful colors and uh it's magnificent

51  
00:03:23,270 --> 00:03:14,640  
to see from space so that's where we are

52  
00:03:26,070 --> 00:03:24,949  
thank you so much fantastic harry and

53  
00:03:28,789 --> 00:03:26,080  
we're going to have our first live

54  
00:03:31,110 --> 00:03:28,799  
question now and that question tim is

55  
00:03:37,910 --> 00:03:31,120  
from chloe from liverpool chloe what's

56  
00:03:43,030 --> 00:03:40,630  
hi tim i'm chloe from golden flash prime

57  
00:03:44,869 --> 00:03:43,040  
stuff my question is why doesn't spears

58  
00:03:46,229 --> 00:03:44,879  
have any gravity

59  
00:03:51,270 --> 00:03:46,239  
so tim that question from chloe why

60  
00:03:55,429 --> 00:03:53,750  
hi chloe that is a great question and

61  
00:03:57,830 --> 00:03:55,439  
it's actually a little it's a little bit

62  
00:04:00,229 --> 00:03:57,840  
tricky for me to answer because we do

63  
00:04:02,550 --> 00:04:00,239

have gravity up here we have almost as

64

00:04:04,309 --> 00:04:02,560

much gravity as you do down on planet

65

00:04:07,110 --> 00:04:04,319

earth it's just that we're tricking

66

00:04:09,350 --> 00:04:07,120

planet earth by traveling really fast so

67

00:04:11,990 --> 00:04:09,360

i've got a planet here

68

00:04:14,470 --> 00:04:12,000

this might help me explain you see we're

69

00:04:17,430 --> 00:04:14,480

traveling around the planet so fast that

70

00:04:19,509 --> 00:04:17,440

as gravity pulls us down we are missing

71

00:04:21,270 --> 00:04:19,519

the earth we're not actually hitting the

72

00:04:24,230 --> 00:04:21,280

earth and that's only because we're

73

00:04:25,909 --> 00:04:24,240

traveling so fast around the earth that

74

00:04:28,390 --> 00:04:25,919

we're missing it and therefore the

75

00:04:37,670 --> 00:04:28,400

gravity is pulling us down but we never

76

00:04:42,710 --> 00:04:40,230

chloe fantastic thank you

77

00:04:45,590 --> 00:04:42,720

all right tim so we're gonna crack on

78

00:04:47,510 --> 00:04:45,600

with our game of follow the leader uh a

79

00:04:49,830 --> 00:04:47,520

cosmic game and follow the leader so i'm

80

00:04:51,830 --> 00:04:49,840

gonna ask everyone here in liverpool and

81

00:04:54,150 --> 00:04:51,840

you at home watching us uh to take to

82

00:04:56,469 --> 00:04:54,160

your feet okay tim i'm gonna ask you to

83

00:04:57,990 --> 00:04:56,479

unclip from your support

84

00:04:59,909 --> 00:04:58,000

in a second tim

85

00:05:03,270 --> 00:04:59,919

and we're all going to crouch down so

86

00:05:07,110 --> 00:05:03,280

tim as well so let's all crouch down

87

00:05:13,670 --> 00:05:09,670

and then tim

88

00:05:16,790 --> 00:05:13,680

so unclip him and then crouch down

89

00:05:19,110 --> 00:05:16,800

and then push off there you go all right

90

00:05:19,909 --> 00:05:19,120

let's stand up

91

00:05:21,029 --> 00:05:19,919

so

92

00:05:23,670 --> 00:05:21,039

tim

93

00:05:26,469 --> 00:05:23,680

floating there in space and spinning

94

00:05:28,230 --> 00:05:26,479

around nothing sticking him down uh so

95

00:05:31,430 --> 00:05:28,240

that's pretty cool all right brilliant

96

00:05:34,390 --> 00:05:31,440

that's a great start okay now the next

97

00:05:36,550 --> 00:05:34,400

thing tim that we it's gonna do here is

98

00:05:38,550 --> 00:05:36,560

to spin around

99

00:05:40,950 --> 00:05:38,560

on the spot so if you get yourself back

100

00:05:43,749 --> 00:05:40,960

in position tim um and guys if you just

101  
00:05:45,189 --> 00:05:43,759  
spin around on the spot and get back and

102  
00:05:46,150 --> 00:05:45,199  
now let's have a look at what happens to

103  
00:05:55,029 --> 00:05:46,160  
tim

104  
00:05:55,039 --> 00:06:02,070  
so he just keeps going

105  
00:06:05,909 --> 00:06:03,670  
and you can see that once you start

106  
00:06:07,909 --> 00:06:05,919  
getting things going nothing stops so

107  
00:06:11,270 --> 00:06:07,919  
tim everyone's here watching you spin

108  
00:06:14,150 --> 00:06:11,280  
around that's fantastic so uh guys just

109  
00:06:16,390 --> 00:06:14,160  
take your seats again for one second um

110  
00:06:18,150 --> 00:06:16,400  
and tim i'd just like you to do that

111  
00:06:20,710 --> 00:06:18,160  
spin again but this time put your arms

112  
00:06:22,390 --> 00:06:20,720  
out and then pull them in for us so

113  
00:06:25,270 --> 00:06:22,400

tim's spinning around the guys here

114

00:06:28,230 --> 00:06:26,710

and so

115

00:06:30,710 --> 00:06:28,240

and you can see that tim goes a bit

116

00:06:36,870 --> 00:06:30,720

faster as he pulls his arms in that's

117

00:06:42,629 --> 00:06:39,670

brilliant okay one last thing tim okay

118

00:06:46,710 --> 00:06:42,639

everybody else stand up again

119

00:06:51,510 --> 00:06:49,670

fantastic uh brilliant tim all right one

120

00:06:52,550 --> 00:06:51,520

last thing to him and that is we're

121

00:06:53,909 --> 00:06:52,560

going to get everyone to touch their

122

00:06:55,510 --> 00:06:53,919

thoughts that everyone here is going to

123

00:06:57,350 --> 00:06:55,520

touch their toes touch your toes guys in

124

00:06:59,830 --> 00:06:57,360

the audience okay and now we're going to

125

00:07:04,309 --> 00:06:59,840

watch tim tim you touch your toes for us

126

00:07:17,670 --> 00:07:07,350

okay perfect now and if tim you'd touch

127

00:07:25,189 --> 00:07:18,629

uh

128

00:07:27,189 --> 00:07:25,199

has never been so much fun i think tim

129

00:07:29,589 --> 00:07:27,199

uh so that's what happens if you touch

130

00:07:31,110 --> 00:07:29,599

your toes in space uh that's all

131

00:07:32,790 --> 00:07:31,120

fantastic um

132

00:07:35,830 --> 00:07:32,800

now tim apart from your trick with the

133

00:07:40,390 --> 00:07:35,840

microphone what else can you do in space

134

00:07:40,400 --> 00:07:51,589

well kevin um i can disappear like this

135

00:07:51,599 --> 00:08:05,589

and come back like this

136

00:08:08,629 --> 00:08:07,749

uh tim i'm very jealous that that looks

137

00:08:10,469 --> 00:08:08,639

very

138

00:08:14,150 --> 00:08:10,479

looks like a lot of fun is that as much

139

00:08:17,909 --> 00:08:16,230

it's fantastic fun you know we're so

140

00:08:19,430 --> 00:08:17,919

privileged we get to work up here all

141

00:08:28,390 --> 00:08:19,440

day but it's like playing in a great

142

00:08:32,469 --> 00:08:30,790

all right well we've got another video

143

00:08:34,870 --> 00:08:32,479

question here for you tim i'm just

144

00:08:36,949 --> 00:08:34,880

cueing that up on the line uh this

145

00:08:38,870 --> 00:08:36,959

question is from wilberfoss primary

146

00:08:42,149 --> 00:08:38,880

school and we're going to see that now i

147

00:08:47,509 --> 00:08:44,870

hi tim i'm riley

148

00:08:50,870 --> 00:08:47,519

i am five years old from willow buffalo

149

00:08:54,790 --> 00:08:50,880

primary school my question is does your

150

00:08:56,550 --> 00:08:54,800

heart meet castle in space

151

00:08:59,590 --> 00:08:56,560

so tim does your heart beat faster in

152

00:09:03,590 --> 00:09:01,670

yeah riley that's a great question and

153

00:09:06,070 --> 00:09:03,600

actually it's the opposite my heart

154

00:09:07,829 --> 00:09:06,080

beats slower up here in space because

155

00:09:10,230 --> 00:09:07,839

it's having a really easy time it

156

00:09:12,710 --> 00:09:10,240

doesn't have to pump all the blood

157

00:09:14,710 --> 00:09:12,720

around the body fighting against gravity

158

00:09:16,630 --> 00:09:14,720

there's no well we're in weightlessness

159

00:09:18,230 --> 00:09:16,640

up here and so the heart has a really

160

00:09:20,389 --> 00:09:18,240

easy time and so it actually beats a

161

00:09:22,470 --> 00:09:20,399

little bit slower and if we didn't do

162

00:09:24,550 --> 00:09:22,480

exercise every day it would start

163

00:09:26,310 --> 00:09:24,560

shrinking which is why we work out we

164

00:09:28,389 --> 00:09:26,320

get on the running machine and the cycle

165

00:09:30,550 --> 00:09:28,399

machine and staying fit and healthy is

166

00:09:39,030 --> 00:09:30,560

really important up here in space just

167

00:09:43,590 --> 00:09:41,509

fantastic and fantastic question there

168

00:09:45,110 --> 00:09:43,600

and our next question is live here from

169

00:09:46,230 --> 00:09:45,120

liverpool we've got aaron here and

170

00:09:48,710 --> 00:09:46,240

aaron's going to ask you a question

171

00:09:51,430 --> 00:09:48,720

aaron go ahead

172

00:09:53,910 --> 00:09:51,440

hi tim i'm erin from south primary

173

00:09:56,710 --> 00:09:53,920

school my question is does the food

174

00:09:58,790 --> 00:09:56,720

drink face have a strong taste so tim

175

00:10:02,230 --> 00:09:58,800

does the food you eat have a strong

176

00:10:06,870 --> 00:10:04,470

hi erin that's a great question as well

177

00:10:08,550 --> 00:10:06,880

i think the food actually tastes a

178

00:10:10,790 --> 00:10:08,560

little bit more bland up here so it

179

00:10:13,110 --> 00:10:10,800

doesn't taste so strong and part of that

180

00:10:14,870 --> 00:10:13,120

is because we don't smell as well up

181

00:10:17,430 --> 00:10:14,880

here with our nose because our heads are

182

00:10:19,030 --> 00:10:17,440

a little bit puffy all the fluid that's

183

00:10:20,710 --> 00:10:19,040

normally kind of in your legs and your

184

00:10:22,949 --> 00:10:20,720

feet it kind of shifts up into your

185

00:10:24,790 --> 00:10:22,959

chest and your head and that that blocks

186

00:10:27,430 --> 00:10:24,800

your nose a little bit so we don't smell

187

00:10:29,110 --> 00:10:27,440

food so much and part of the enjoy

188

00:10:38,550 --> 00:10:29,120

enjoyment of eating is the smell of the

189

00:10:42,550 --> 00:10:40,870

fantastic so so food doesn't taste so

190

00:10:44,790 --> 00:10:42,560

good up there and now we've got an

191

00:10:47,750 --> 00:10:44,800

interesting question from cody again

192

00:10:49,430 --> 00:10:47,760

here with us uh in liverpool and that's

193

00:10:51,590 --> 00:10:49,440

going to lead us into our next activity

194

00:10:55,590 --> 00:10:51,600

cody go ahead

195

00:10:58,630 --> 00:10:55,600

i'm from chapcity primary school my

196

00:11:00,310 --> 00:10:58,640

question is is it fun drinking water out

197

00:11:02,069 --> 00:11:00,320

for bubble

198

00:11:05,670 --> 00:11:02,079

tim is it fun drinking water out of a

199

00:11:11,829 --> 00:11:08,630

it's really fun cody yes i mean normally

200

00:11:13,990 --> 00:11:11,839

we have drinks bags like this which have

201  
00:11:15,670 --> 00:11:14,000  
straws on them and so we just drink all

202  
00:11:17,110 --> 00:11:15,680  
other drinks

203  
00:11:18,790 --> 00:11:17,120  
through a straw but of course you can

204  
00:11:20,710 --> 00:11:18,800  
have a lot of fun in weightlessness and

205  
00:11:30,870 --> 00:11:20,720  
you can turn it into a bubble and then

206  
00:11:33,910 --> 00:11:32,230  
i think tim's going to show us a bit

207  
00:11:35,509 --> 00:11:33,920  
about what it's like to drink out of

208  
00:11:36,389 --> 00:11:35,519  
this bubble so everyone's watching you

209  
00:11:38,550 --> 00:11:36,399  
do this

210  
00:11:42,069 --> 00:11:38,560  
there there you go it's like blowing up

211  
00:11:44,310 --> 00:11:42,079  
a balloon isn't it

212  
00:11:45,590 --> 00:11:44,320  
and we were absolutely right that is a

213  
00:11:52,069 --> 00:11:45,600

sphere you're going to try and drink

214

00:12:03,509 --> 00:11:54,470

everyone enjoyed that tim uh

215

00:12:07,110 --> 00:12:04,949

there are a couple of other things i can

216

00:12:20,389 --> 00:12:07,120

do with the water up here so let me show

217

00:12:25,590 --> 00:12:23,110

so i've got a little bubble there

218

00:12:27,430 --> 00:12:25,600

and that bubble of water is going to

219

00:12:29,430 --> 00:12:27,440

float away

220

00:12:31,269 --> 00:12:29,440

but i also have with me

221

00:12:34,030 --> 00:12:31,279

two bats which are just like table

222

00:12:36,870 --> 00:12:34,040

tennis bats except these bats are

223

00:12:39,190 --> 00:12:36,880

hydrophobic which means they resist the

224

00:12:41,509 --> 00:12:39,200

water so the water doesn't stick to them

225

00:12:43,590 --> 00:12:41,519

they're like non-sticky bats which means

226

00:12:44,790 --> 00:12:43,600

that you can actually play space ping

227

00:12:46,310 --> 00:12:44,800

pong

228

00:13:02,069 --> 00:12:46,320

there you go we can have games on a

229

00:13:05,110 --> 00:13:03,670

now something else i'm going to do is

230

00:13:07,350 --> 00:13:05,120

i'm going to make this bubble a little

231

00:13:09,750 --> 00:13:07,360

bit bigger i'm going to add some water

232

00:13:12,069 --> 00:13:09,760

to it and then i'm going to put in a

233

00:13:14,230 --> 00:13:12,079

fizzy tablet and show you what happens

234

00:13:26,230 --> 00:13:14,240

when we put fizzy tablets in water up

235

00:13:26,240 --> 00:13:37,829

so

236

00:13:37,839 --> 00:13:52,069

hmm

237

00:13:52,079 --> 00:13:56,069

oh

238

00:14:00,470 --> 00:13:59,189

so i've got my uh fizzy tablet here and

239

00:14:02,470 --> 00:14:00,480

the bubble is nice and close to the

240

00:14:08,389 --> 00:14:02,480

camera so i can show you here we go

241

00:14:11,509 --> 00:14:09,910

and there you can see the bubble is

242

00:14:13,990 --> 00:14:11,519

starting to grow

243

00:14:16,069 --> 00:14:14,000

all of the gas is being released

244

00:14:17,990 --> 00:14:16,079

but all it's doing is it's making that

245

00:14:37,350 --> 00:14:18,000

bubble of water get bigger and bigger

246

00:14:41,430 --> 00:14:38,949

everyone very very impressed with that

247

00:14:43,670 --> 00:14:41,440

trick down here on at him but putting a

248

00:14:46,310 --> 00:14:43,680

fizzy vitamin tablet uh in water has

249

00:14:48,389 --> 00:14:46,320

never been so much fun i think

250

00:14:51,509 --> 00:14:48,399

all right that's fantastic what an

251

00:14:54,470 --> 00:14:51,519

amazing amazing demonstration um i think

252

00:14:56,629 --> 00:14:54,480

we've got time for another question i

253

00:14:59,110 --> 00:14:56,639

think so uh

254

00:15:01,509 --> 00:14:59,120

and the next question is again from here

255

00:15:04,629 --> 00:15:01,519

in liverpool while you well you tidy up

256

00:15:15,350 --> 00:15:04,639

that uh that bubble and this is from

257

00:15:18,629 --> 00:15:16,629

that's the present i gave for tim for

258

00:15:20,870 --> 00:15:18,639

christmas

259

00:15:23,509 --> 00:15:20,880

hi tim i'm matthew from saint john's

260

00:15:25,590 --> 00:15:23,519

fall short primary school my question is

261

00:15:29,269 --> 00:15:25,600

is there a possibility of a meteor or

262

00:15:33,990 --> 00:15:32,230

so tim is there a possibility

263

00:15:34,949 --> 00:15:34,000

that's a great question

264

00:15:37,829 --> 00:15:34,959

and

265

00:15:41,189 --> 00:15:37,839

actually we do get hit by small

266

00:15:42,629 --> 00:15:41,199

particles every day now sometimes

267

00:15:44,790 --> 00:15:42,639

they're a little bit bigger than others

268

00:15:46,710 --> 00:15:44,800

and they have even caused some damage on

269

00:15:48,310 --> 00:15:46,720

the outside of the space station when we

270

00:15:50,069 --> 00:15:48,320

do a space walk for example we have to

271

00:15:51,670 --> 00:15:50,079

be careful where we put our hands

272

00:15:53,749 --> 00:15:51,680

because sometimes there are little dents

273

00:15:56,230 --> 00:15:53,759

and pieces of sharp metal where small

274

00:15:58,470 --> 00:15:56,240

micro meteorites have hit us but we also

275

00:16:00,870 --> 00:15:58,480

have some very clever people back down

276

00:16:03,350 --> 00:16:00,880

on earth who are tracking a lot of

277

00:16:05,829 --> 00:16:03,360

debris and a lot of space particles and

278

00:16:07,749 --> 00:16:05,839

if ever we are in any danger then the

279

00:16:09,509 --> 00:16:07,759

iss will simply move out the way and

280

00:16:11,110 --> 00:16:09,519

we'll shift orbits to get out the way of

281

00:16:19,350 --> 00:16:11,120

any space debris but it's a great

282

00:16:23,269 --> 00:16:21,269

okay and another question we're just

283

00:16:25,350 --> 00:16:23,279

going to get another live question here

284

00:16:27,590 --> 00:16:25,360

and this one is from oliver oliver go

285

00:16:30,470 --> 00:16:27,600

for it

286

00:16:32,870 --> 00:16:30,480

hi team i'm oliver from yabba academy my

287

00:16:34,710 --> 00:16:32,880

question is what is your favorite

288

00:16:38,949 --> 00:16:34,720

science experiment on the international

289

00:16:43,430 --> 00:16:41,590

hi oliver my favorite experiment we've

290

00:16:46,230 --> 00:16:43,440

well we've got quite a few up here i i

291

00:16:47,829 --> 00:16:46,240

do like um the vegetables and the

292

00:16:49,509 --> 00:16:47,839

flowers that we're growing in space i

293

00:16:52,069 --> 00:16:49,519

think that's really interesting that we

294

00:16:53,430 --> 00:16:52,079

can start to grow our own food up here

295

00:16:55,670 --> 00:16:53,440

and of course we're going to need that

296

00:16:58,069 --> 00:16:55,680

for when we go on longer missions like

297

00:17:00,069 --> 00:16:58,079

fermat to mars as well

298

00:17:02,150 --> 00:17:00,079

and i also enjoy the experiments we're

299

00:17:03,829 --> 00:17:02,160

doing on our own human bodies because a

300

00:17:06,150 --> 00:17:03,839

lot of this research is going to help

301

00:17:08,870 --> 00:17:06,160

everybody back on planet earth to be

302

00:17:10,549 --> 00:17:08,880

fitter and to be healthier and help them

303

00:17:12,309 --> 00:17:10,559

get over certain diseases so there's

304

00:17:20,390 --> 00:17:12,319

some really exciting and interesting

305

00:17:24,230 --> 00:17:22,630

and tim um just one last question and

306

00:17:26,230 --> 00:17:24,240

this one's from tom here in liverpool

307

00:17:27,110 --> 00:17:26,240

before we begin to wrap up so tom go for

308

00:17:29,510 --> 00:17:27,120

it

309

00:17:31,590 --> 00:17:29,520

hi tim i'm tom from high school science

310

00:17:33,830 --> 00:17:31,600

club my question is what is your

311

00:17:39,110 --> 00:17:33,840

favorite button on the iss and what does

312

00:17:43,510 --> 00:17:41,669

hi tom uh i love that question do you

313

00:17:45,029 --> 00:17:43,520

know i have never been asked that before

314

00:17:47,029 --> 00:17:45,039

and that's quite rare to have not been

315

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

asked the question before this is one

316

00:17:52,710 --> 00:17:49,440

great button behind me let me show you

317

00:17:55,430 --> 00:17:52,720

and this button on this panel here

318

00:17:58,310 --> 00:17:55,440

actually opens up the door to outer

319

00:17:59,830 --> 00:17:58,320

space this is a big air lock here and

320

00:18:02,070 --> 00:17:59,840

through this air lock we can pass

321

00:18:04,230 --> 00:18:02,080

experiments into space and i have a

322

00:18:07,350 --> 00:18:04,240

great button here which i love pressing

323

00:18:08,950 --> 00:18:07,360

and that opens the hatch to space um we

324

00:18:10,630 --> 00:18:08,960

also have some pretty cool buttons in

325

00:18:12,390 --> 00:18:10,640

the sawyer spacecraft for example

326

00:18:14,630 --> 00:18:12,400

there's a button that will actually

327

00:18:16,870 --> 00:18:14,640

separate the spacecraft into three

328

00:18:18,789 --> 00:18:16,880

separate pieces for when we come back

329

00:18:20,630 --> 00:18:18,799

down to planet earth

330

00:18:28,470 --> 00:18:20,640

and that should be around about june

331

00:18:31,830 --> 00:18:30,390

uh tim we have one time for one last

332

00:18:33,590 --> 00:18:31,840

message from you to all the children

333

00:18:35,750 --> 00:18:33,600

here in the world museum in liverpool

334

00:18:37,510 --> 00:18:35,760

and uh all the children across the uk

335

00:18:39,590 --> 00:18:37,520

and the world taking part in the cosmic

336

00:18:43,830 --> 00:18:39,600

classroom so what's your closing message

337

00:18:47,510 --> 00:18:45,830

well listen guys i've had an absolutely

338

00:18:49,590 --> 00:18:47,520

fantastic time talking to you this

339

00:18:51,990 --> 00:18:49,600

afternoon and all i can say is thank you

340

00:18:53,669 --> 00:18:52,000

so much for joining in for everybody

341

00:18:55,270 --> 00:18:53,679

who's traveled long distances to get to

342

00:18:56,950 --> 00:18:55,280

the world museum at liverpool and for

343

00:18:58,630 --> 00:18:56,960

everybody who's joining in the cosmic

344

00:19:00,950 --> 00:18:58,640

classroom on the internet

345

00:19:03,909 --> 00:19:00,960

thanks for the great support continue to

346

00:19:06,230 --> 00:19:03,919

have fun enjoy your studying i hope you

347

00:19:08,789 --> 00:19:06,240

enjoy learning about space and remember

348

00:19:10,310 --> 00:19:08,799

to just do what you really enjoy doing

349

00:19:18,390 --> 00:19:10,320

have a great day and thanks very much

350

00:19:21,909 --> 00:19:19,830

tim it's been an enormous pleasure

351

00:19:23,830 --> 00:19:21,919

speaking to you here and i speak on

352

00:19:25,669 --> 00:19:23,840

behalf of everyone here guys i think tim

353

00:19:36,390 --> 00:19:25,679

deserves a big cheer i think he'd like

354

00:19:36,400 --> 00:19:39,830

okay

355

00:19:44,950 --> 00:19:42,470

i think i think they love you tim um tim

356

00:19:46,950 --> 00:19:44,960

it's so great to speak to you again uh

357

00:19:49,669 --> 00:19:46,960

uh and and really great to see you

358

00:19:52,549 --> 00:19:49,679

you're doing an amazing job uh guys uh

359

00:19:55,350 --> 00:19:52,559

houston that concludes our activity and

360

00:19:58,310 --> 00:19:55,360

thank you again tim thank you so much uh

361

00:20:12,390 --> 00:19:58,320

ladies and gentlemen astronaut tim p

362

00:20:20,310 --> 00:20:14,710

station this is houston acr

363

00:20:25,830 --> 00:20:23,669

thank you european space agency and tes