



1  
00:00:08,150 --> 00:00:02,470  
station this is houston are you ready

2  
00:00:08,160 --> 00:00:12,150  
yes i'm ready for the event

3  
00:00:16,310 --> 00:00:14,310  
cartel elementary school this is mission

4  
00:00:18,310 --> 00:00:16,320  
control houston please call station for

5  
00:00:26,070 --> 00:00:18,320  
a voice check please pull station for a

6  
00:00:26,080 --> 00:00:32,709  
i have you loud and clear

7  
00:00:43,350 --> 00:00:34,790  
great we

8  
00:00:47,750 --> 00:00:44,950  
actually i've wanted to become an

9  
00:00:51,590 --> 00:00:47,760  
astronaut for a long time so i'm looking

10  
00:00:57,270 --> 00:00:51,600  
forward to answering all your questions

11  
00:01:01,830 --> 00:01:00,150  
my role model growing up was actually

12  
00:01:03,270 --> 00:01:01,840  
probably my parents

13  
00:01:06,630 --> 00:01:03,280

they

14

00:01:09,190 --> 00:01:06,640

do to this day

15

00:01:12,149 --> 00:01:09,200

and they are two of the hardest working

16

00:01:14,070 --> 00:01:12,159

people i know and i think i learned that

17

00:01:16,070 --> 00:01:14,080

work ethic from them

18

00:01:18,390 --> 00:01:16,080

and that that drive

19

00:01:22,550 --> 00:01:18,400

and i think that's what helped make me

20

00:01:24,870 --> 00:01:22,560

successful in my uh pursuit of a goal to

21

00:01:27,590 --> 00:01:24,880

become an astronaut

22

00:01:31,990 --> 00:01:27,600

when did you decide to focus on becoming

23

00:01:36,310 --> 00:01:34,230

actually i i happened to think i wanted

24

00:01:38,789 --> 00:01:36,320

to be an astronaut when i was nine years

25

00:01:41,749 --> 00:01:38,799

old and watched the first guys walk on

26

00:01:44,149 --> 00:01:41,759

the moon but it really didn't become i

27

00:01:45,830 --> 00:01:44,159

think a goal for me until i graduated

28

00:01:47,270 --> 00:01:45,840

from high school and that was the year

29

00:01:50,069 --> 00:01:47,280

they first picked

30

00:01:52,069 --> 00:01:50,079

female astronauts so that's when i i

31

00:01:54,310 --> 00:01:52,079

decided i want to become an astronaut it

32

00:01:57,590 --> 00:01:54,320

was a very very difficult thing but

33

00:02:01,749 --> 00:01:57,600

again that that determination uh

34

00:02:06,709 --> 00:02:04,469

what would you be you were

35

00:02:11,750 --> 00:02:06,719

what would you be if you were not after

36

00:02:15,110 --> 00:02:14,070

um i think if i weren't an astronaut i

37

00:02:17,910 --> 00:02:15,120

would

38

00:02:20,070 --> 00:02:17,920

still be working at nasa i love nasa and

39

00:02:21,030 --> 00:02:20,080

what it stands for the exploration of

40

00:02:24,229 --> 00:02:21,040

space

41

00:02:26,229 --> 00:02:24,239

understanding more about our planet and

42

00:02:28,309 --> 00:02:26,239

where it came from understanding more

43

00:02:31,750 --> 00:02:28,319

about the stars

44

00:02:33,830 --> 00:02:31,760

that whole exploration process to me is

45

00:02:35,990 --> 00:02:33,840

very interesting and something that

46

00:02:37,589 --> 00:02:36,000

appealed to me so i think i would still

47

00:02:40,390 --> 00:02:37,599

work at nasa there are a lot of folks

48

00:02:44,309 --> 00:02:40,400

who work at nasa who aren't astronauts

49

00:02:51,509 --> 00:02:46,150

what was your most memorable space

50

00:02:56,710 --> 00:02:53,830

well living up here every day

51  
00:02:58,229 --> 00:02:56,720  
is actually an incredibly memorable

52  
00:03:00,630 --> 00:02:58,239  
experience

53  
00:03:02,630 --> 00:03:00,640  
becoming used to to being in zero

54  
00:03:04,390 --> 00:03:02,640  
gravity where you

55  
00:03:05,830 --> 00:03:04,400  
can float in all different kinds of

56  
00:03:08,229 --> 00:03:05,840  
directions

57  
00:03:10,390 --> 00:03:08,239  
and it all feels the same you work it

58  
00:03:12,869 --> 00:03:10,400  
here and live here it's actually

59  
00:03:15,190 --> 00:03:12,879  
extremely memorable but probably the

60  
00:03:19,270 --> 00:03:15,200  
most uh significant thing

61  
00:03:21,430 --> 00:03:19,280  
is actually doing a space walk and

62  
00:03:23,750 --> 00:03:21,440  
i i think when you're out in a space

63  
00:03:25,750 --> 00:03:23,760

suit it's like being in your own little

64

00:03:29,190 --> 00:03:25,760

individual spaceship

65

00:03:30,470 --> 00:03:29,200

and being able to see our huge structure

66

00:03:32,470 --> 00:03:30,480

this this

67

00:03:35,030 --> 00:03:32,480

i'm you're just looking at one module

68

00:03:37,830 --> 00:03:35,040

that we live in there's many modules up

69

00:03:40,149 --> 00:03:37,840

here the truss structure that holds the

70

00:03:40,949 --> 00:03:40,159

solar arrays is longer than a football

71

00:03:44,550 --> 00:03:40,959

field

72

00:03:47,589 --> 00:03:44,560

it's really amazing uh this technical

73

00:03:50,070 --> 00:03:47,599

achievement we have and then you get the

74

00:03:52,630 --> 00:03:50,080

beauty of planet earth below us to look

75

00:03:54,710 --> 00:03:52,640

at so all of it is very spectacular but

76

00:03:58,550 --> 00:03:54,720

i think the space walk is is probably

77

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

how did it feel to make history and

78

00:04:07,910 --> 00:04:02,959

become the first woman commander of an

79

00:04:12,390 --> 00:04:09,990

well in in many ways it was never

80

00:04:14,949 --> 00:04:12,400

something that i had necessarily planned

81

00:04:17,990 --> 00:04:14,959

on for a long time but as i

82

00:04:20,150 --> 00:04:18,000

worked at nasa and after i had flown a

83

00:04:22,150 --> 00:04:20,160

space flight it became

84

00:04:23,830 --> 00:04:22,160

obvious to me that i could do the role

85

00:04:27,189 --> 00:04:23,840

of being a commander

86

00:04:28,710 --> 00:04:27,199

and i just set my sights on trying to do

87

00:04:31,030 --> 00:04:28,720

that as well

88

00:04:33,510 --> 00:04:31,040

i was never setting my sights on the

89

00:04:35,990 --> 00:04:33,520

role of being the first female commander

90

00:04:37,830 --> 00:04:36,000

but it worked out that way i was very

91

00:04:40,070 --> 00:04:37,840

lucky in that regard and i guess to be

92

00:04:42,310 --> 00:04:40,080

the first it was a very much an honor to

93

00:04:46,550 --> 00:04:44,310

and it's a huge privilege to be able to

94

00:04:48,550 --> 00:04:46,560

do it again

95

00:04:50,310 --> 00:04:48,560

what events do you miss most on or

96

00:04:59,430 --> 00:04:50,320

through their decision to spend time

97

00:05:03,270 --> 00:05:01,510

um i think probably the thing i miss the

98

00:05:05,350 --> 00:05:03,280

most

99

00:05:07,350 --> 00:05:05,360

from earth is just actually visiting

100

00:05:08,469 --> 00:05:07,360

with friends and family i can talk to

101  
00:05:10,390 --> 00:05:08,479  
them on the

102  
00:05:13,590 --> 00:05:10,400  
internet protocol phone that we have

103  
00:05:15,749 --> 00:05:13,600  
it's kind of like a skype phone

104  
00:05:17,590 --> 00:05:15,759  
we don't always have video but it's

105  
00:05:19,670 --> 00:05:17,600  
actually great to be able to stay in

106  
00:05:21,909 --> 00:05:19,680  
touch but just hanging out with friends

107  
00:05:25,110 --> 00:05:21,919  
and family i think is the thing i miss

108  
00:05:32,550 --> 00:05:26,710  
what were the keys to reaching your

109  
00:05:38,870 --> 00:05:35,350  
i i think that determination and work

110  
00:05:39,830 --> 00:05:38,880  
ethic i think were key for me

111  
00:05:43,189 --> 00:05:39,840  
i

112  
00:05:45,510 --> 00:05:43,199  
well

113  
00:05:47,909 --> 00:05:45,520

but that paid off that all the studying

114

00:05:48,790 --> 00:05:47,919

paid off for me

115

00:05:51,430 --> 00:05:48,800

so i

116

00:05:54,950 --> 00:05:51,440

i think determination and work ethic are

117

00:06:02,550 --> 00:05:56,790

how does the food you grow in space

118

00:06:05,749 --> 00:06:04,150

that's a good question we've grown a

119

00:06:07,830 --> 00:06:05,759

couple of different things up here in

120

00:06:09,350 --> 00:06:07,840

space when i got here shane was already

121

00:06:11,189 --> 00:06:09,360

growing some lettuce

122

00:06:13,110 --> 00:06:11,199

and then after that i grew some stuff

123

00:06:15,430 --> 00:06:13,120

that was called chinese cabbage but was

124

00:06:17,590 --> 00:06:15,440

also very similar to lettuce

125

00:06:20,550 --> 00:06:17,600

and it tasted great we had the

126  
00:06:21,670 --> 00:06:20,560  
opportunity to harvest it and eat some

127  
00:06:23,510 --> 00:06:21,680  
of it

128  
00:06:25,830 --> 00:06:23,520  
it didn't really taste different other

129  
00:06:28,870 --> 00:06:25,840  
than it's very unique

130  
00:06:31,510 --> 00:06:28,880  
up here to have fresh fresh vegetables

131  
00:06:34,390 --> 00:06:31,520  
and so it tasted fantastic better than

132  
00:06:36,550 --> 00:06:34,400  
any lettuce i've ever had on the ground

133  
00:06:41,189 --> 00:06:36,560  
when do you think civilians begin to

134  
00:06:45,350 --> 00:06:43,749  
actually that's a really good question

135  
00:06:47,510 --> 00:06:45,360  
and

136  
00:06:50,710 --> 00:06:47,520  
we have a lot of commercial companies

137  
00:06:51,629 --> 00:06:50,720  
now in the united states who are trying

138  
00:06:53,189 --> 00:06:51,639

to

139

00:06:55,990 --> 00:06:53,199

commercialize

140

00:06:58,230 --> 00:06:56,000

access to space and i think that we are

141

00:07:03,510 --> 00:06:58,240

not that far away so i'm sure that in

142

00:07:06,390 --> 00:07:03,520

your lifetimes you will see a time where

143

00:07:08,790 --> 00:07:06,400

anyone can buy a seat and go to

144

00:07:10,870 --> 00:07:08,800

space

145

00:07:14,790 --> 00:07:10,880

describe what earth looks like from your

146

00:07:20,230 --> 00:07:17,510

well we're about 250 miles above the

147

00:07:23,029 --> 00:07:20,240

earth uh going at 17

148

00:07:26,230 --> 00:07:23,039

500 miles an hour and our view of the

149

00:07:27,189 --> 00:07:26,240

earth is actually uh it covers most of

150

00:07:29,029 --> 00:07:27,199

the

151  
00:07:31,350 --> 00:07:29,039  
our view below us

152  
00:07:33,110 --> 00:07:31,360  
and obviously about half of the time

153  
00:07:35,110 --> 00:07:33,120  
we're in the sunshine and half of the

154  
00:07:38,150 --> 00:07:35,120  
time we're in night time we go around

155  
00:07:39,029 --> 00:07:38,160  
the earth about once every 90 minutes

156  
00:07:44,869 --> 00:07:39,039  
and

157  
00:07:47,270 --> 00:07:44,879  
four years is quite spectacular

158  
00:07:49,670 --> 00:07:47,280  
but to me i think the most beautiful

159  
00:07:51,350 --> 00:07:49,680  
beautiful thing about our planet is uh

160  
00:07:53,029 --> 00:07:51,360  
looking at the limb of the earth the

161  
00:07:55,830 --> 00:07:53,039  
curve of the earth

162  
00:07:59,189 --> 00:07:55,840  
that we can see from our viewpoint

163  
00:08:02,390 --> 00:07:59,199

especially at sunrise and sunset it is

164

00:08:02,400 --> 00:08:08,390

what is your favorite book and why

165

00:08:12,390 --> 00:08:10,390

i think you know growing up my favorite

166

00:08:14,230 --> 00:08:12,400

book was illusions

167

00:08:16,230 --> 00:08:14,240

by richard bach

168

00:08:19,029 --> 00:08:16,240

and i think it it

169

00:08:20,710 --> 00:08:19,039

had one saying in it that i think is is

170

00:08:22,550 --> 00:08:20,720

very uh

171

00:08:23,830 --> 00:08:22,560

important

172

00:08:25,990 --> 00:08:23,840

and

173

00:08:29,270 --> 00:08:26,000

you can become you're never given a wish

174

00:08:31,670 --> 00:08:29,280

without also being given the power to

175

00:08:34,870 --> 00:08:31,680

make it true you may have to work for it

176

00:08:41,269 --> 00:08:36,870

did you have any fears on your first

177

00:08:44,790 --> 00:08:43,029

that's a good question i think probably

178

00:08:47,430 --> 00:08:44,800

the thing i was most afraid of was

179

00:08:48,470 --> 00:08:47,440

making mistakes and uh

180

00:08:50,550 --> 00:08:48,480

you know

181

00:08:52,949 --> 00:08:50,560

that's something we don't want to do

182

00:08:54,389 --> 00:08:52,959

none of us want to do that

183

00:08:57,030 --> 00:08:54,399

so i think that was probably the biggest

184

00:08:59,430 --> 00:08:57,040

fear but we do a lot of training and

185

00:09:02,230 --> 00:08:59,440

that really helps us and prepares us for

186

00:09:05,110 --> 00:09:02,240

those situations where for instance if

187

00:09:07,030 --> 00:09:05,120

we had a bad day on station we practice

188

00:09:09,030 --> 00:09:07,040

all the emergencies that we would do so

189

00:09:10,870 --> 00:09:09,040

that we understand what our role and

190

00:09:12,949 --> 00:09:10,880

responsibility would be during those

191

00:09:15,350 --> 00:09:12,959

emergencies

192

00:09:17,269 --> 00:09:15,360

so i think because of all the training

193

00:09:19,990 --> 00:09:17,279

there were not so many fears it's just

194

00:09:22,230 --> 00:09:20,000

other than in general i don't want to

195

00:09:24,550 --> 00:09:22,240

make mistakes and so that that was my

196

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

biggest fear

197

00:09:30,550 --> 00:09:26,320

what was your favorite subject in

198

00:09:34,389 --> 00:09:32,389

my favorite subject

199

00:09:36,230 --> 00:09:34,399

was biology i think that was probably my

200

00:09:39,350 --> 00:09:36,240

first love i ended up getting a

201  
00:09:41,590 --> 00:09:39,360  
bachelor's degree in biology and another

202  
00:09:44,389 --> 00:09:41,600  
bachelor's degree in chemistry

203  
00:09:50,389 --> 00:09:44,399  
and later a

204  
00:09:58,630 --> 00:09:52,470  
what new investigations are your crew

205  
00:10:03,110 --> 00:10:00,630  
actually the one investigation that i'm

206  
00:10:05,350 --> 00:10:03,120  
working on right now that i enjoy am

207  
00:10:08,150 --> 00:10:05,360  
enjoying the most is looking at stem

208  
00:10:09,350 --> 00:10:08,160  
cell growth these are special cells that

209  
00:10:12,470 --> 00:10:09,360  
are part

210  
00:10:15,110 --> 00:10:12,480  
uh that can be used uh potentially in

211  
00:10:17,350 --> 00:10:15,120  
the future to help fight cancer

212  
00:10:19,590 --> 00:10:17,360  
uh there's some gene therapy cell and

213  
00:10:21,990 --> 00:10:19,600

gene therapies now and these special

214

00:10:24,150 --> 00:10:22,000

cells uh

215

00:10:25,829 --> 00:10:24,160

make it possible to do these kind of

216

00:10:27,430 --> 00:10:25,839

therapies

217

00:10:29,430 --> 00:10:27,440

but the thing that we're trying to do

218

00:10:31,590 --> 00:10:29,440

here is see if we can grow them

219

00:10:33,030 --> 00:10:31,600

proliferate them grow them in big

220

00:10:34,949 --> 00:10:33,040

batches

221

00:10:37,269 --> 00:10:34,959

maybe better than we can on earth and

222

00:10:39,750 --> 00:10:37,279

try and understand that process

223

00:10:42,550 --> 00:10:39,760

and since one of the things that i did

224

00:10:44,870 --> 00:10:42,560

in my research was growing tissues it's

225

00:10:48,069 --> 00:10:44,880

called tissue culture

226

00:10:56,069 --> 00:10:49,990

what was your most

227

00:11:00,710 --> 00:10:58,550

actually that's an easy question because

228

00:11:01,910 --> 00:11:00,720

growing up i was very shy

229

00:11:06,389 --> 00:11:01,920

and

230

00:11:09,990 --> 00:11:06,399

so it's very difficult to do public

231

00:11:13,350 --> 00:11:10,000

speaking but growing up and in 4-h club

232

00:11:16,790 --> 00:11:13,360

i had to give presentations to in public

233

00:11:19,509 --> 00:11:16,800

into groups initially just the 4-h club

234

00:11:21,910 --> 00:11:19,519

and then it expanded and doing

235

00:11:24,630 --> 00:11:21,920

presentations in the community and

236

00:11:27,190 --> 00:11:24,640

eventually i did presentations at the

237

00:11:29,829 --> 00:11:27,200

state fair which was a

238

00:11:30,949 --> 00:11:29,839

pretty big deal for me as shy as i was

239

00:11:33,670 --> 00:11:30,959

and so

240

00:11:36,470 --> 00:11:33,680

being able to overcome that hurdle was

241

00:11:38,870 --> 00:11:36,480

very important

242

00:11:42,949 --> 00:11:38,880

what are the top three tunes on your

243

00:11:48,150 --> 00:11:45,030

actually i enjoy a lots of different

244

00:11:50,949 --> 00:11:48,160

music uh probably the three groups i

245

00:11:55,190 --> 00:11:50,959

listen the most to are coldplay and

246

00:12:01,590 --> 00:11:56,550

what would you change on the

247

00:12:05,110 --> 00:12:03,430

what would i change on the international

248

00:12:07,030 --> 00:12:05,120

space station i think that's actually a

249

00:12:09,350 --> 00:12:07,040

really good question

250

00:12:12,790 --> 00:12:09,360

and generally i would say i would like

251  
00:12:14,629 --> 00:12:12,800  
to have even more laboratories but

252  
00:12:16,069 --> 00:12:14,639  
after the work i was doing the last

253  
00:12:19,829 --> 00:12:16,079  
couple of days i think i want more

254  
00:12:23,829 --> 00:12:21,990  
in late april you will surpass jeff

255  
00:12:26,470 --> 00:12:23,839  
williams record for the american with

256  
00:12:32,230 --> 00:12:26,480  
the most cumulative time and space how

257  
00:12:36,470 --> 00:12:34,470  
i think setting records

258  
00:12:38,550 --> 00:12:36,480  
in exploration is very important it

259  
00:12:41,509 --> 00:12:38,560  
shows that we're advancing

260  
00:12:43,430 --> 00:12:41,519  
in our capabilities and so i think

261  
00:12:45,110 --> 00:12:43,440  
setting the record is is extremely

262  
00:12:47,030 --> 00:12:45,120  
important i don't think who holds the

263  
00:12:49,030 --> 00:12:47,040

records is important and i hope that

264

00:12:50,710 --> 00:12:49,040

someone will surpass my record in the

265

00:12:53,910 --> 00:12:50,720

very near future

266

00:12:56,310 --> 00:12:53,920

and i hope that you you young people in

267

00:13:04,470 --> 00:12:56,320

your futures will surpass all the

268

00:13:04,480 --> 00:13:10,340

what

269

00:13:10,350 --> 00:13:17,269

[Music]

270

00:13:24,230 --> 00:13:19,670

what does your family think about your

271

00:13:38,470 --> 00:13:26,230

well i hope they're proud i think they

272

00:13:45,509 --> 00:13:40,629

what words of encouragement do you have

273

00:13:51,030 --> 00:13:48,470

actually that's really easy i think it

274

00:13:54,150 --> 00:13:51,040

is important for young people to dream

275

00:13:57,110 --> 00:13:54,160

big and i and i mean really big do think

276  
00:13:59,430 --> 00:13:57,120  
about things that you might not imagine

277  
00:14:02,150 --> 00:13:59,440  
or see yourself doing and imagine

278  
00:14:05,350 --> 00:14:02,160  
yourself there and then pursue it as a

279  
00:14:07,430 --> 00:14:05,360  
goal because you can accomplish it

280  
00:14:11,110 --> 00:14:07,440  
accomplish it so

281  
00:14:14,870 --> 00:14:12,949  
good morning this is mr johnson the

282  
00:14:16,870 --> 00:14:14,880  
principal here at hartsfield could you

283  
00:14:18,470 --> 00:14:16,880  
tell my scholars about the module that

284  
00:14:19,670 --> 00:14:18,480  
you're in and maybe point out some of

285  
00:14:24,389 --> 00:14:19,680  
the things

286  
00:14:28,790 --> 00:14:26,470  
sure thing that's a great question here

287  
00:14:31,509 --> 00:14:28,800  
right next to me i was telling you about

288  
00:14:33,430 --> 00:14:31,519

the stem cell research i was doing

289

00:14:35,990 --> 00:14:33,440

and i actually have a microscope set up

290

00:14:38,150 --> 00:14:36,000

here and it's hooked up to a camera so

291

00:14:40,870 --> 00:14:38,160

that the ground team can look at it and

292

00:14:43,189 --> 00:14:40,880

see what i'm doing

293

00:14:45,829 --> 00:14:43,199

so that's really fun to be able to do

294

00:14:48,310 --> 00:14:45,839

that we've got lots of different uh

295

00:14:51,189 --> 00:14:48,320

things here right next to me here is uh

296

00:14:53,350 --> 00:14:51,199

the uh sevis it's a

297

00:14:55,509 --> 00:14:53,360

a cycle ergometer that we use for

298

00:14:57,829 --> 00:14:55,519

exercise we exercise about two and a

299

00:15:00,470 --> 00:14:57,839

half hours every day because we don't

300

00:15:02,150 --> 00:15:00,480

want to lose bone mass or muscle

301  
00:15:04,710 --> 00:15:02,160  
strength while we're up here because

302  
00:15:06,949 --> 00:15:04,720  
when you're floating around like this

303  
00:15:08,790 --> 00:15:06,959  
your bones and muscles just don't get

304  
00:15:11,670 --> 00:15:08,800  
the same stimulation that they do on the

305  
00:15:14,470 --> 00:15:11,680  
ground so we have to exercise every day

306  
00:15:17,910 --> 00:15:14,480  
we have laptops everywhere that control

307  
00:15:19,990 --> 00:15:17,920  
different experiments this is a barrier

308  
00:15:21,910 --> 00:15:20,000  
we have a very interesting experiment

309  
00:15:23,990 --> 00:15:21,920  
going on inside here with a large

310  
00:15:26,150 --> 00:15:24,000  
microscope and the ground team is

311  
00:15:27,430 --> 00:15:26,160  
watching and following the experiment as

312  
00:15:29,670 --> 00:15:27,440  
it's going on

313  
00:15:31,269 --> 00:15:29,680

and further back here you can see

314

00:15:35,350 --> 00:15:31,279

we have

315

00:15:37,509 --> 00:15:35,360

a robotic workstation this controls our

316

00:15:39,430 --> 00:15:37,519

17 meter

317

00:15:41,990 --> 00:15:39,440

arm that's outside

318

00:15:43,910 --> 00:15:42,000

uh so by using these hand controllers

319

00:15:47,269 --> 00:15:43,920

and the monitors

320

00:15:49,110 --> 00:15:47,279

uh we can control that rob that large

321

00:15:51,110 --> 00:15:49,120

robotic arm that's outside and that's

322

00:15:53,189 --> 00:15:51,120

really important for doing various

323

00:15:55,110 --> 00:15:53,199

activities and the ground team can

324

00:15:57,269 --> 00:15:55,120

control it or we can control it here

325

00:15:59,749 --> 00:15:57,279

from the module

326  
00:16:01,590 --> 00:15:59,759  
and we we capture the visiting vehicle

327  
00:16:02,710 --> 00:16:01,600  
for instance last week tomorrow and

328  
00:16:03,910 --> 00:16:02,720  
shane

329  
00:16:06,790 --> 00:16:03,920  
captured

330  
00:16:09,990 --> 00:16:06,800  
the spacex dragon vehicle it's a cargo

331  
00:16:12,069 --> 00:16:10,000  
craft and it come it comes into close to

332  
00:16:14,550 --> 00:16:12,079  
the station and hovers and then using

333  
00:16:17,110 --> 00:16:14,560  
the robotic arm we go out and grab it

334  
00:16:19,910 --> 00:16:17,120  
and then set it on the station and then

335  
00:16:22,870 --> 00:16:19,920  
unload all the supplies from inside and

336  
00:16:25,350 --> 00:16:22,880  
then using the arm we can take payloads

337  
00:16:27,590 --> 00:16:25,360  
out of the outside and attach them to

338  
00:16:30,550 --> 00:16:27,600

the station so it's actually very neat

339

00:16:33,509 --> 00:16:32,230

thank you for that my last and final

340

00:16:35,990 --> 00:16:33,519

question would be

341

00:16:38,710 --> 00:16:36,000

what could you say to our scholars here

342

00:16:40,230 --> 00:16:38,720

about as far as being future researchers

343

00:16:41,350 --> 00:16:40,240

what is the most important thing that

344

00:16:48,629 --> 00:16:41,360

you learn

345

00:16:52,870 --> 00:16:50,710

that's actually a really good question

346

00:16:54,629 --> 00:16:52,880

i think uh

347

00:16:58,230 --> 00:16:54,639

being questioning

348

00:17:00,310 --> 00:16:58,240

uh developing hypothesis developing a

349

00:17:03,189 --> 00:17:00,320

theory for why you think something might

350

00:17:05,590 --> 00:17:03,199

be happening and then figuring out the

351

00:17:07,909 --> 00:17:05,600

right experiment to test and prove or

352

00:17:09,990 --> 00:17:07,919

disprove that hypothesis

353

00:17:12,630 --> 00:17:10,000

is very important uh

354

00:17:14,309 --> 00:17:12,640

in scientific research and actually you

355

00:17:16,710 --> 00:17:14,319

know it's it's actually a good thing to

356

00:17:18,549 --> 00:17:16,720

keep in mind uh in terms of how you

357

00:17:20,150 --> 00:17:18,559

approach life

358

00:17:23,029 --> 00:17:20,160

you don't want to have a preconceived

359

00:17:25,110 --> 00:17:23,039

notion necessarily of an outcome but if

360

00:17:27,189 --> 00:17:25,120

you can make a plan and a hypothesis and

361

00:17:29,110 --> 00:17:27,199

figure out

362

00:17:31,110 --> 00:17:29,120

what what's what was accurate and what

363

00:17:33,909 --> 00:17:31,120

was accurate not accurate about what you

364

00:17:36,549 --> 00:17:33,919

had imagined it to be but definitely

365

00:17:39,029 --> 00:17:36,559

pursue those goals because and and

366

00:17:40,789 --> 00:17:39,039

answer the questions look for questions

367

00:17:45,190 --> 00:17:40,799

and try and answer them i think that's

368

00:17:52,710 --> 00:17:47,270

were you able to see the movie hidden

369

00:17:57,750 --> 00:17:56,070

actually they they sent it up to us uh

370

00:17:59,590 --> 00:17:57,760

prior actually to when it opened which

371

00:18:02,630 --> 00:17:59,600

was really special for us to get to

372

00:18:03,669 --> 00:18:02,640

watch it appear on orbit

373

00:18:05,990 --> 00:18:03,679

i had

374

00:18:07,110 --> 00:18:06,000

read the book and so i was really

375

00:18:10,390 --> 00:18:07,120

impressed

376

00:18:11,430 --> 00:18:10,400

with how it was portrayed in the movie

377

00:18:14,630 --> 00:18:11,440

and

378

00:18:22,150 --> 00:18:14,640

obviously it's an incredible story

379

00:18:27,270 --> 00:18:24,390

we at huntsville elementary wednesday

380

00:18:29,350 --> 00:18:27,280

thank you so much dr wilson for taking

381

00:18:36,630 --> 00:18:29,360

the time to talk with us

382

00:18:41,430 --> 00:18:38,950

well you guys had fantastic questions

383

00:18:42,950 --> 00:18:41,440

and it was really a blast to talk to you

384

00:18:45,350 --> 00:18:42,960

and i'm going to just show you one last