



International Space Station



Santa Monica High School

1
00:00:13,546 --> 00:00:14,581
>> HOUSTON, THIS IS

2
00:00:14,647 --> 00:00:15,081
STATION.

3
00:00:15,081 --> 00:00:17,250
WE ARE READY FOR THE EVENT.

4
00:00:17,317 --> 00:00:19,219
SANTA MONICA HIGH SCHOOL,

5
00:00:19,285 --> 00:00:21,187
PLEASE CALL STATION FOR A

6
00:00:21,254 --> 00:00:24,157
VOICE CHECK.

7
00:00:24,224 --> 00:00:27,694
>> STATION, THIS IS RANDY

8
00:00:27,761 --> 00:00:29,396
BRESNIK SR., HERE WITH THE

9
00:00:29,462 --> 00:00:30,063
STUDENTS.

10
00:00:30,130 --> 00:00:31,164
HOW DO YOU HEAR SEE?

11
00:00:31,231 --> 00:00:32,799
WELL, STAN, WE GOT YOU LOUD

12
00:00:32,866 --> 00:00:33,867
AND CLEAR.

13
00:00:33,933 --> 00:00:37,437

WELCOME, EVERYONE, TO THE

14

00:00:37,504 --> 00:00:38,438

INTERNATIONAL SPACE

15

00:00:38,505 --> 00:00:43,109

STATION.

16

00:00:43,176 --> 00:00:45,512

THIS IS MY SON RANDY BRESNIK

17

00:00:45,578 --> 00:00:49,449

AND HIS FELLOW ASTRONAUT JOE

18

00:00:49,516 --> 00:00:50,083

ACABA.

19

00:00:50,150 --> 00:00:50,850

GOOD MORNING.

20

00:00:50,920 --> 00:00:52,160

>> GOOD MORNING, SANTA MONICA.

21

00:01:08,560 --> 00:01:10,200

>> STATION, THIS IS YOUR

22

00:01:10,270 --> 00:01:12,272

FIRST STUDENT HERE WITH HER

23

00:01:12,338 --> 00:01:18,044

FIRST QUESTION.

24

00:01:18,111 --> 00:01:18,711

>> HI.

25

00:01:18,778 --> 00:01:21,448

I AM IN GRADE 12.

26
00:01:21,514 --> 00:01:24,451
I WAS WONDERING, HOW DO YOU

27
00:01:24,517 --> 00:01:31,524
PREPARE FOR SPACE?

28
00:01:31,591 --> 00:01:32,992
>> IT REALLY TAUGHT ME HOW

29
00:01:33,059 --> 00:01:34,093
TO START STUDYING.

30
00:01:34,160 --> 00:01:35,495
YOU GO FROM MIDDLE COOL TO

31
00:01:35,562 --> 00:01:36,362
HIGH SCHOOL.

32
00:01:36,429 --> 00:01:38,264
ALL OF THESE DIFFERENT

33
00:01:38,331 --> 00:01:39,999
PORTIONS.

34
00:01:40,066 --> 00:01:41,468
IT TAUGHT ME SELF-DISCIPLINE

35
00:01:41,534 --> 00:01:42,669
AND THE OPPORTUNITY TO DO

36
00:01:42,735 --> 00:01:44,838
ALL KINDS OF THING, LIKE

37
00:01:44,904 --> 00:01:47,040
LANGUAGE, PHYSICS, TESTS,

38
00:01:47,106 --> 00:01:48,308

CHEMISTRY, ALL THE THINGS

39

00:01:48,374 --> 00:01:49,642

THAT WERE INTERESTING ME

40

00:01:49,709 --> 00:01:51,077

ABOUT HOW THINGS WORK AND

41

00:01:51,144 --> 00:01:52,679

WHY THEY WORK THE WAY THEY

42

00:01:52,745 --> 00:01:55,515

DID?

43

00:01:55,582 --> 00:01:58,885

YOU KNOW, AHEAD A JOB FROM

44

00:01:58,952 --> 00:02:00,186

TENTH GRADE TO 12th

45

00:02:00,253 --> 00:02:00,820

GRADE.

46

00:02:00,887 --> 00:02:02,155

I HAD TO LEARN ABOUT TIME

47

00:02:02,222 --> 00:02:03,556

AND SCHEDULE DISCIPLINE AND

48

00:02:03,623 --> 00:02:04,257

THINGS LIKE THAT.

49

00:02:04,324 --> 00:02:05,358

YOU CAN SEE FROM WHAT I

50

00:02:05,425 --> 00:02:07,494

LEARNED THERE AS A YOUNG

51
00:02:07,560 --> 00:02:09,796
ADULT, AS I BECAME AN

52
00:02:09,863 --> 00:02:10,363
ADULT.

53
00:02:10,430 --> 00:02:11,931
THOSE WERE THINGS THAT WERE

54
00:02:11,998 --> 00:02:12,632
USEFUL.

55
00:02:12,699 --> 00:02:13,500
THROUGH, YOU KNOW, THE

56
00:02:13,566 --> 00:02:14,968
DISCIPLINES I GAINED WHILE I

57
00:02:15,034 --> 00:02:17,537
WAS AT HIGH SCHOOL, I WAS

58
00:02:17,604 --> 00:02:19,305
FORTUNATE TO BE ABLE TO GET

59
00:02:19,372 --> 00:02:20,773
SCHOLARSHIPS TO GO TO

60
00:02:20,840 --> 00:02:21,474
COLLEGE.

61
00:02:21,541 --> 00:02:22,909
IT GAVE ME A GOOD START THAT

62
00:02:22,976 --> 00:02:29,415
I NEEDED TO BE ABLE TO GET

63
00:02:29,482 --> 00:02:31,217

READY AND LAUNCH TO LIFE.

64

00:02:31,284 --> 00:02:31,851

>> HI.

65

00:02:31,918 --> 00:02:33,119

MY NAME IS JULIE.

66

00:02:33,186 --> 00:02:35,021

I WILL TAKE OVER AND HELP

67

00:02:35,088 --> 00:02:35,955

MODERATE HERE.

68

00:02:36,022 --> 00:02:37,991

I AM IN THE BOOTH AT THE

69

00:02:38,057 --> 00:02:39,192

HIGH SCHOOL.

70

00:02:39,259 --> 00:02:39,993

>> HI.

71

00:02:40,059 --> 00:02:41,928

I AM DANIEL SIZER.

72

00:02:41,995 --> 00:02:42,529

12th GRADE.

73

00:02:42,595 --> 00:02:44,430

IT WAS WONDERING, WHAT WAS

74

00:02:44,497 --> 00:02:46,199

THE MOST DIFFICULT LIFE

75

00:02:46,266 --> 00:02:47,867

SKILL EATING, BATHING, THAT

76

00:02:47,934 --> 00:02:49,102

YOU LEARNED TO DO ON THE

77

00:02:49,168 --> 00:02:56,743

SPACE STATION?

78

00:02:56,809 --> 00:02:58,411

>> THANKS ANOTHER QUESTION.

79

00:02:58,478 --> 00:02:59,913

IT IS IS AN INTERESTING

80

00:02:59,979 --> 00:03:00,479

ONE.

81

00:03:00,513 --> 00:03:01,714

WHEN YOU GET HUNGRY.

82

00:03:01,781 --> 00:03:02,382

YOU EAT.

83

00:03:02,448 --> 00:03:03,516

AS LONG AS THE STOMACH IS

84

00:03:03,583 --> 00:03:04,817

FEELING GOOD WHICH MAY TAKE

85

00:03:04,884 --> 00:03:06,319

A DAY OR TWO, THAT IS NO

86

00:03:06,386 --> 00:03:06,953

PROBLEM.

87

00:03:07,020 --> 00:03:07,987

BATHING, THAT EASY.

88

00:03:08,054 --> 00:03:09,322

WE DON'T TAKE SHOWERS UP

89

00:03:09,389 --> 00:03:11,257

HERE EITHER, SO THAT IS ALL

90

00:03:11,324 --> 00:03:11,858

RIGHT.

91

00:03:11,925 --> 00:03:13,326

IT US ALL ABOUT, YOU KNOW,

92

00:03:13,393 --> 00:03:15,094

USING A TOWEL TO CLEAN

93

00:03:15,161 --> 00:03:16,029

YOURSELF UP.

94

00:03:16,095 --> 00:03:18,231

SO I THINK THE MOST

95

00:03:18,298 --> 00:03:19,432

DIFFICULT THING AND WE BOTH

96

00:03:19,499 --> 00:03:20,833

HAVE BEEN HERE BEFORE BUT

97

00:03:20,900 --> 00:03:27,674

IT'S THE WORK ROUTINE THAT

98

00:03:27,740 --> 00:03:28,841

WE HAVE WHERE YOU HAVE TO

99

00:03:28,908 --> 00:03:30,143

STAY FOCUSED ALL DAY LONG.

100

00:03:30,209 --> 00:03:32,445

WE DO SA MONEY TAXES THROUGH

101
00:03:32,512 --> 00:03:33,146
THE DAY.

102
00:03:33,212 --> 00:03:34,581
THIS BELONGER I WAS WORKING

103
00:03:34,647 --> 00:03:36,082
IN THE AIR LOCK, YOU KNOW, I

104
00:03:36,149 --> 00:03:37,784
MADE A COUPLE OF MISTAKES.

105
00:03:37,850 --> 00:03:38,985
LUCKILY I HAD HOUSTON

106
00:03:39,052 --> 00:03:41,287
WATCHING ME, SO KEEPING THAT

107
00:03:41,354 --> 00:03:43,156
FOCUS ALL DAY LONG AND

108
00:03:43,222 --> 00:03:44,390
GIVING YOUR BEST AND WHAT

109
00:03:44,457 --> 00:03:45,959
YOU ARE DOING AT MOMENT IS A

110
00:03:46,025 --> 00:03:53,499
CHALLENGE OF DAY.

111
00:03:53,566 --> 00:03:56,035
>> HI, MY NAME IS TEDDY.

112
00:03:56,102 --> 00:03:58,104
AM IN THIRD GRADE AT GRANT

113
00:03:58,171 --> 00:03:59,105

ELEMENTARY SCHOOL.

114

00:03:59,172 --> 00:03:59,706

MY QUESTION IS.

115

00:03:59,772 --> 00:04:00,807

WHAT DOES AT THIS TIME LIKE

116

00:04:00,873 --> 00:04:02,709

TO WALK IN SPACE, AND WHAT

117

00:04:02,775 --> 00:04:07,347

DO YOU LEARN?

118

00:04:07,413 --> 00:04:09,148

>> WELL, WALK IN SPACE IS A

119

00:04:09,215 --> 00:04:10,383

REALLY SPECIAL EXPERIENCE

120

00:04:10,450 --> 00:04:13,553

FOR ASTRONAUTS.

121

00:04:13,620 --> 00:04:15,188

550 HUMANS THAT HAVE BEEN TO

122

00:04:15,254 --> 00:04:16,956

SPACE ONLY ABOUT 220 THAT

123

00:04:17,023 --> 00:04:18,524

HAVE BEEN ON A SPACEWALK.

124

00:04:18,591 --> 00:04:20,660

HERE YOU ARE IN YOUR OWN

125

00:04:20,727 --> 00:04:22,028

PERSONAL SPACECRAFT.

126
00:04:22,095 --> 00:04:23,563
EVEN THOUGH YOU HAVE BEEN

127
00:04:23,630 --> 00:04:24,864
FLOATING AROUND IN SIDE, YOU

128
00:04:24,931 --> 00:04:26,199
ARE CONTAINED AND HAVE A

129
00:04:26,265 --> 00:04:27,634
SENSE OF SECURITY BECAUSE

130
00:04:27,700 --> 00:04:29,035
YOU ARE FLOATING, YOU KNOW

131
00:04:29,102 --> 00:04:31,638
YOU CAN ONLY GO SORE SO FAR

132
00:04:31,704 --> 00:04:34,374
WHEN YOU WO GO OUTSTINED

133
00:04:34,440 --> 00:04:35,508
SPEN PERSONAL SPACECRAFT AND

134
00:04:35,575 --> 00:04:39,312
YOU HAVE GLASS BOWL OR A

135
00:04:39,379 --> 00:04:41,914
FISHBOWL, AND ALL YOUR

136
00:04:41,981 --> 00:04:43,383
PERIPHERAL VISION IS JUST

137
00:04:43,449 --> 00:04:44,717
SPACE, NOW ALL OF THE

138
00:04:44,784 --> 00:04:46,119

SUDDEN, NOW, THERE IS, WHEN

139

00:04:46,185 --> 00:04:48,655

YOU LOOK DOWN, THE ONLY

140

00:04:48,721 --> 00:04:50,089

BETWEEN YOU AND THE EARTH IS

141

00:04:50,156 --> 00:04:50,857

THE BOOTH.

142

00:04:50,923 --> 00:04:52,558

THAT IS WHEN IT BECOMES

143

00:04:52,625 --> 00:04:53,960

PHYSICALLY VERY, VERY REAL

144

00:04:54,027 --> 00:04:55,061

BECAUSE YOU DON'T HAVE

145

00:04:55,128 --> 00:04:56,529

ANYTHING, YOU KNOW, TO CATCH

146

00:04:56,596 --> 00:04:58,631

YOU IF YOU BECOMES OF THE

147

00:04:58,698 --> 00:04:59,198

WALL.

148

00:04:59,232 --> 00:05:00,199

SO WE HAVE TETHERS.

149

00:05:00,266 --> 00:05:01,567

WE TRAIN CARFULLY TO MOVE

150

00:05:01,634 --> 00:05:02,869

AROUND THE STATION SO WE'RE

151
00:05:02,935 --> 00:05:05,872
ALWAYS TETHERED, SO WE WORK

152
00:05:05,938 --> 00:05:07,607
WITH OUR HANDS.

153
00:05:07,674 --> 00:05:09,042
THE THING THAT YOU LEARN

154
00:05:09,108 --> 00:05:10,076
MOST IS TO OVERCOME YOUR

155
00:05:10,143 --> 00:05:11,511
FEAR.

156
00:05:11,577 --> 00:05:13,413
BECAUSE THERE IS A

157
00:05:13,479 --> 00:05:15,248
IMMEDIATE, VERY REAL, I DONE

158
00:05:15,314 --> 00:05:17,316
THINK IT MATTERS HOW MANY

159
00:05:17,383 --> 00:05:19,919
SPACEWALKS YOU DO, PHYSICAL

160
00:05:19,986 --> 00:05:21,421
FEAR OF WHAT YOU SEE, THE

161
00:05:21,487 --> 00:05:23,289
WHOLE LIFE, THE BODY HAS

162
00:05:23,356 --> 00:05:26,859
BEEN TRAINED, THAT IF I AM

163
00:05:26,926 --> 00:05:28,428

UP INTERHIGH, LOOKING DOWN,

164

00:05:28,494 --> 00:05:30,963

YOUR BODY NATURALLY REACTS

165

00:05:31,030 --> 00:05:31,798

TO THAT.

166

00:05:31,864 --> 00:05:33,533

IF YOU WEB ON TOP OF BARNUM

167

00:05:33,599 --> 00:05:34,967

HALL AND LOOKED AT THE EM OF

168

00:05:35,034 --> 00:05:36,769

THE BUILDING AND LEAN OVER.

169

00:05:36,836 --> 00:05:38,871

YOUR BODY WOULD SAY LEAN

170

00:05:38,938 --> 00:05:40,306

BACK BECAUSE YOUR BODY WOULD

171

00:05:40,373 --> 00:05:42,008

SAY, HEY, I FEEL PHYSICAL

172

00:05:42,075 --> 00:05:42,642

FEAR.

173

00:05:42,709 --> 00:05:43,509

YOU HAVE TO OVERCOME THAT

174

00:05:43,576 --> 00:05:44,644

WHEN YOU ARE DOING

175

00:05:44,711 --> 00:05:45,278

SPACEWALKS.

176
00:05:45,344 --> 00:05:46,679
YOU DO THAT TO GAIN

177
00:05:46,746 --> 00:05:47,814
CONFIDENCE IN THE

178
00:05:47,880 --> 00:05:48,247
EQUIPMENT.

179
00:05:48,247 --> 00:05:49,048
PUT THE TETHERS ON BOTH

180
00:05:49,115 --> 00:05:51,184
SPOTS.

181
00:05:51,250 --> 00:05:53,286
THEN PUSH OFF.

182
00:05:53,352 --> 00:05:54,087
LET GO.

183
00:05:54,153 --> 00:05:55,288
SEE THE TETHERS BAG UP A

184
00:05:55,354 --> 00:05:56,289
LITTLE BIT.

185
00:05:56,355 --> 00:05:57,623
TETHERS PULL YOU BACK IN.

186
00:05:57,690 --> 00:05:58,458
GUESS WHAT?

187
00:05:58,524 --> 00:06:00,626
IT HELPS YOU OVERCOME THE

188
00:06:00,693 --> 00:06:01,594

NATURAL FEAR AND THE REST OF

189

00:06:01,661 --> 00:06:03,196

THE TIME SAYING LIKE JOE

190

00:06:03,262 --> 00:06:03,896

SAID.

191

00:06:03,963 --> 00:06:05,064

INSIDE OF THE WORK, OUTSIDE

192

00:06:05,131 --> 00:06:05,998

THES SAME.

193

00:06:06,065 --> 00:06:08,267

YOU GOT TO BE FOCUSED EVERY

194

00:06:08,334 --> 00:06:10,069

SINGLE BIT OF THE EDA MUCH

195

00:06:10,136 --> 00:06:11,637

EVERY TIME MOVE YOUR HAND,

196

00:06:11,704 --> 00:06:12,839

EVERY TIME YOU WORK ON A

197

00:06:12,905 --> 00:06:14,073

TOOL, DO ANY OF THAT, YOU

198

00:06:14,140 --> 00:06:16,275

HAVE GOT TO BE FOCUSED ON

199

00:06:16,342 --> 00:06:17,777

EVERY SINGLE ONE OF THOSE,

200

00:06:17,844 --> 00:06:20,780

SO IT IS, YOU NOMO, GOOD TO

201
00:06:20,847 --> 00:06:21,914
START YOUNG TO HAVE

202
00:06:21,981 --> 00:06:23,049
ATTENTION TO DETAIL ON

203
00:06:23,116 --> 00:06:23,649
EVERYTHING DO YOU.

204
00:06:23,716 --> 00:06:25,284
IS GREET HAVE FUN, BUT THERE

205
00:06:25,351 --> 00:06:26,886
IS TIME FOR WORK AND PLAY.

206
00:06:26,953 --> 00:06:28,354
WHEN ARE WORKING, BE SERIOUS

207
00:06:28,421 --> 00:06:37,296
ABOUT IT.

208
00:06:37,363 --> 00:06:37,897
>> HI.

209
00:06:37,964 --> 00:06:41,567
I AM IN THE 12th GRADE.

210
00:06:41,634 --> 00:06:46,072
ARE YOUR DREAMS DIFFERENT IN

211
00:06:46,139 --> 00:06:53,513
SPACE?

212
00:06:53,579 --> 00:06:54,947
>> THEY ARE A LITTLE BIT

213
00:06:55,014 --> 00:06:55,514

DIFFERENT.

214

00:06:55,548 --> 00:06:57,250

IT JUST HIT ME, MAYBE A WEEK

215

00:06:57,316 --> 00:07:00,019

OR SO AGO, THAT WHEN YOU OPP

216

00:07:00,086 --> 00:07:00,953

EARTHED, YOU DREAM ABOUT

217

00:07:01,020 --> 00:07:01,654

THING ON EARTH.

218

00:07:01,721 --> 00:07:03,256

MEAN YOU MIGHT HAVE A DREAM

219

00:07:03,322 --> 00:07:04,357

EVERY NOW AND IN THE, WHERE

220

00:07:04,423 --> 00:07:05,691

YOU ARE FLYING AROUND, BUT

221

00:07:05,758 --> 00:07:07,226

JUST THIS PAST WEEK, I

222

00:07:07,293 --> 00:07:08,394

STARTED HAVING DREAMS WHERE

223

00:07:08,461 --> 00:07:09,996

I AM ACTUALLY FLOATING.

224

00:07:10,062 --> 00:07:12,665

SO I THINK MY MIND HAS GONE

225

00:07:12,732 --> 00:07:14,233

FROM THAT LIVING ON EARTH

226

00:07:14,300 --> 00:07:15,368

AND MAYBE YOU MIGHT HAVE

227

00:07:15,434 --> 00:07:16,502

THIS DREAM YOU ARE FLYING A

228

00:07:16,569 --> 00:07:17,904

LITTLE BIT, BUT POW, IT IS

229

00:07:17,970 --> 00:07:19,672

LIKE A REGULAR DREAM, I CAN

230

00:07:19,739 --> 00:07:21,607

REMEMBER WHAT I WAS DOING

231

00:07:21,674 --> 00:07:23,576

BUT IT WAS FLOATING INSTEAD

232

00:07:23,643 --> 00:07:26,779

OF WALKING, SO I THINK THAT

233

00:07:26,846 --> 00:07:27,747

IS NART CHANGES.

234

00:07:27,814 --> 00:07:30,082

THE CONCEPTS OF THE DREAMS I

235

00:07:30,149 --> 00:07:31,217

THINK ARE SIMILAR.

236

00:07:31,284 --> 00:07:32,251

I THINK IT WOULD BE

237

00:07:32,318 --> 00:07:34,153

INTERESTING TO STUDY TO LOG

238

00:07:34,220 --> 00:07:35,888

YOUR DREAMS ON EARTH FOR

239

00:07:35,955 --> 00:07:37,223

PERIOD OF TIME AND DO THE

240

00:07:37,290 --> 00:07:38,958

SAME THING UP HERE.

241

00:07:39,025 --> 00:07:40,660

MAYBE SOMEBODY WILL HAVE US

242

00:07:40,726 --> 00:07:41,127

DO THAT.

243

00:07:41,127 --> 00:07:42,495

IT IS COOL WHEN YOU FIRST

244

00:07:42,562 --> 00:07:43,563

START DREAMING ABOUT

245

00:07:43,629 --> 00:07:44,497

FLOATING AND I THINK ITS

246

00:07:44,564 --> 00:07:45,498

THE SAME THING WHEN YOU,

247

00:07:45,565 --> 00:07:47,066

WHEN YOU LEARN A FOREIGN LAN

248

00:07:47,133 --> 00:07:48,568

GAMING, WHEN YOU START

249

00:07:48,634 --> 00:07:49,602

DREAMING IN THAT LANGUAGE,

250

00:07:49,669 --> 00:07:50,870

THEN, YOU KNOW THAT YOU ARE

251
00:07:50,937 --> 00:07:52,672
NOW EMERSED, AND SO I THINK

252
00:07:52,738 --> 00:07:55,508
WE ARE NOW EMERSED IN THE

253
00:07:55,575 --> 00:08:03,482
MICROGRAVITY ENVIRONMENT.

254
00:08:03,549 --> 00:08:06,886
>> HI, I AM IN THE CLASS OF

255
00:08:06,953 --> 00:08:08,621
2010 AND ALSO SANTA MONICA

256
00:08:08,688 --> 00:08:10,089
COLLEGE AEROSPACE

257
00:08:10,156 --> 00:08:12,458
ENGINEERING STUDENT.

258
00:08:12,525 --> 00:08:13,092
WHAT HAS BEEN THE MOST

259
00:08:13,159 --> 00:08:14,227
DIFFICULT TASK YOU HAVE BEEN

260
00:08:14,293 --> 00:08:14,994
FACED WITH?

261
00:08:15,061 --> 00:08:16,696
HOW DID YOU GO ABOUT DEALING

262
00:08:16,762 --> 00:08:17,296
WITH IT?

263
00:08:17,363 --> 00:08:20,800

THANK YOU.

264

00:08:20,867 --> 00:08:22,301

>> THE MOST DIFFICULT BIT OF

265

00:08:22,368 --> 00:08:24,136

TRAINING OR CHALLENGE THAT I

266

00:08:24,203 --> 00:08:26,439

HAD DURING MY TIME AS

267

00:08:26,505 --> 00:08:27,840

ASTRONAUT HAS BEEN, YOU

268

00:08:27,907 --> 00:08:29,942

KNOW, GETTING READY FOR THE

269

00:08:30,009 --> 00:08:30,576

DISPLAY.

270

00:08:30,643 --> 00:08:32,645

HE WE'RE RIDING ON RUSSIAN

271

00:08:32,712 --> 00:08:33,279

SO I ROCKET.

272

00:08:33,346 --> 00:08:34,780

IT WAS THE FLIGHT ENGINEER

273

00:08:34,847 --> 00:08:37,650

IN THE LEFT SEAT OR THE

274

00:08:37,717 --> 00:08:38,684

COPILOT, NOT ONLY DRY TO KNOW

275

00:08:38,751 --> 00:08:40,620

RUSSIAN LANGUAGE, I HAD TO

276
00:08:40,686 --> 00:08:42,355
LEARN A WHOLE NEW SPACECRAFT

277
00:08:42,421 --> 00:08:43,823
ALL IN RUSSIAN, ALL THE

278
00:08:43,890 --> 00:08:45,625
SPREAD DOORS IN RUSSIAN, THE

279
00:08:45,691 --> 00:08:46,993
COMMUNICATION IN RUSSIAN,

280
00:08:47,059 --> 00:08:48,728
SPEAK IN RUSSIAN, SO THAT,

281
00:08:48,794 --> 00:08:50,396
BY FAR, WAS THE BIGGEST

282
00:08:50,463 --> 00:08:53,165
CHALLENGE I HAVE HAD SO FAR,

283
00:08:53,232 --> 00:08:55,268
AND YOU KNOW, JUST LAKE

284
00:08:55,334 --> 00:08:56,302
EVERYTHING THAT IS A

285
00:08:56,369 --> 00:08:57,470
CHALLENGE, IT STARTS SMALL.

286
00:08:57,536 --> 00:08:59,338
YOU HAVE TO GO STEP BY

287
00:08:59,405 --> 00:08:59,905
STEP.

288
00:08:59,939 --> 00:09:01,607

SO IT WAS GETTING IN,

289

00:09:01,674 --> 00:09:02,875
FIGURING OUT WHERE STUFF

290

00:09:02,942 --> 00:09:04,577
WAS, UNDERSTANDING HOW THE

291

00:09:04,644 --> 00:09:06,145
SYSTEM WORK, WHAT HAPPENS

292

00:09:06,212 --> 00:09:07,179
WHEN THEY DIDN'T.

293

00:09:07,246 --> 00:09:08,447
PIECE BY PIECE, THEN EVEN

294

00:09:08,514 --> 00:09:09,782
IFLY PUTTING IT TOGETHER

295

00:09:09,849 --> 00:09:11,250
WHEN WE GOT THE COMPLEX

296

00:09:11,317 --> 00:09:12,818
SIMMATORS THEN FORTUNATELY

297

00:09:12,885 --> 00:09:15,421
HAVING A GREAT SOYUZ

298

00:09:15,488 --> 00:09:16,989
COMMANDER WHO WAS PATIENT

299

00:09:17,056 --> 00:09:18,724
AND WAS A GREAT INSTRUCTOR

300

00:09:18,791 --> 00:09:20,159
MUCH? BELIEVE IT OR NOT.

301
00:09:20,226 --> 00:09:22,728
DID HE PART OF THE HPD AT

302
00:09:22,795 --> 00:09:24,196
UCLA DOWN THE STREET FROM

303
00:09:24,263 --> 00:09:25,364
WHERE YOU ARE.

304
00:09:25,431 --> 00:09:26,599
SO IT WAS REALLY GREAT TO

305
00:09:26,666 --> 00:09:27,833
HAVE HIM THERE AND TO HELP

306
00:09:27,900 --> 00:09:29,669
TEACH ME THE SOYUZ AND GET

307
00:09:29,735 --> 00:09:31,537
THROUGH THEN WE ARE HAVING A

308
00:09:31,604 --> 00:09:32,838
GREAT, WE'RE HAVING A GREAT

309
00:09:32,905 --> 00:09:34,573
FINAL EXAM AND AWESOME LUNCH

310
00:09:34,640 --> 00:09:36,208
AND LOOK FORWARD TO COMING

311
00:09:36,275 --> 00:09:37,944
HOME DECEMBER 14th IN

312
00:09:38,010 --> 00:09:42,748
THE SOYUZ.

313
00:09:42,815 --> 00:09:44,116

>> WELL, HI, COLONEL.

314

00:09:44,183 --> 00:09:45,751

AM SPENCER MIKE IN THE TENTH

315

00:09:45,818 --> 00:09:46,886

GRADE.

316

00:09:46,953 --> 00:09:48,287

MY QUESTION IS: WHAT ARE

317

00:09:48,354 --> 00:09:50,489

THE DUTIES ON SPACE STATION

318

00:09:50,556 --> 00:09:51,891

IN I WOULD LIKE TO THANK YOU

319

00:09:51,958 --> 00:09:53,192

FOR THE SERVICE TO THE SAN

320

00:09:53,259 --> 00:09:55,027

MA MONICA HIGH COMMUNITY AND

321

00:09:55,094 --> 00:10:01,901

THE NATION.

322

00:10:01,968 --> 00:10:03,202

>> THANK YOU VERY MUCH FOR

323

00:10:03,269 --> 00:10:03,769

THAT.

324

00:10:03,803 --> 00:10:04,570

HOPEFULLY YOU ARE LEARNING

325

00:10:04,637 --> 00:10:05,972

THAT LIFE IS NOT ALL ABOUT

326
00:10:06,038 --> 00:10:06,538
YOU.

327
00:10:06,539 --> 00:10:08,374
AND THE MORE YOU ARE ABLE TO

328
00:10:08,441 --> 00:10:12,144
CONTRIBUTE TO PEOPLE AROUND

329
00:10:12,211 --> 00:10:13,779
YOU, AND THE MORE REWARDING

330
00:10:13,846 --> 00:10:14,981
YOUR LIFE IS BECAUSE YOU

331
00:10:15,047 --> 00:10:16,649
HELP MAKE THE WORLD A LITTLE

332
00:10:16,716 --> 00:10:18,217
BETTER PERSON BY PERSON,

333
00:10:18,284 --> 00:10:23,889
PIECE BY PIECE.

334
00:10:23,956 --> 00:10:24,824
>> GOING BACK TO THE

335
00:10:24,890 --> 00:10:26,425
QUESTION, IN TERM OF DUTIES,

336
00:10:26,492 --> 00:10:27,994
THE OFFICIAL TITLE IS FLIGHT

337
00:10:28,060 --> 00:10:28,894
EN GY FEAR.

338
00:10:28,961 --> 00:10:31,630

THIS MAN NEXT TO ME IS OUR

339

00:10:31,697 --> 00:10:32,331
COMMANDER.

340

00:10:32,398 --> 00:10:34,533
THE BIG KAHUNA, BUT ON

341

00:10:34,600 --> 00:10:35,868
DAY-TO-DAY BASIS, OUR DUTIES

342

00:10:35,935 --> 00:10:37,970
ARE ALL ABOUT THE SAME.

343

00:10:38,037 --> 00:10:39,405
AND BECAUSE WE LIVE HERE,

344

00:10:39,472 --> 00:10:42,274
AND WE WORK HERE, WE KIND

345

00:10:42,341 --> 00:10:43,809
DOV EVERYTHING, SO YOUR

346

00:10:43,876 --> 00:10:45,244
DUTIES ARE MAINTAINING THE

347

00:10:45,311 --> 00:10:47,713
SPACE STATION, AND CONDUCT

348

00:10:47,780 --> 00:10:49,582
SCIENCE, AND IT IS FUN

349

00:10:49,648 --> 00:10:50,816
BECAUSE EVERY DAY IS A

350

00:10:50,883 --> 00:10:51,884
LITTLE BIT DIFFERENT, AND

351

00:10:51,951 --> 00:10:53,085

THROUGHOUT THE DAY, IT

352

00:10:53,152 --> 00:10:54,653

CHANGES WHERE I HAD TO WORK

353

00:10:54,720 --> 00:10:55,755

OUT THIS MORNING, THEN I

354

00:10:55,821 --> 00:10:57,089

WENT OVER TO THE AIRLINE,

355

00:10:57,156 --> 00:10:58,858

NOW I AM SETTING UP A CAMERA

356

00:10:58,924 --> 00:11:00,626

FOR ANOTHER EXPERIMENT AND

357

00:11:00,693 --> 00:11:02,294

HERE WE'RE TALKING TO YOU.

358

00:11:02,361 --> 00:11:04,597

SO THE DUTIES ARE KIND OF

359

00:11:04,663 --> 00:11:06,399

ALL ENCOMPASSING AND THAT IS

360

00:11:06,465 --> 00:11:07,600

ONE OF THE FUN THINGS ABOUT

361

00:11:07,666 --> 00:11:09,035

BEING HERE IS THAT YOU KNOW,

362

00:11:09,101 --> 00:11:10,636

YOU LIB, YOU WORK, YOU HANG

363

00:11:10,703 --> 00:11:12,371

OUT WITH YOU'RE DID BUD DITS

364

00:11:12,438 --> 00:11:14,306

THE SAME SPOT AND SO WE ARE

365

00:11:14,373 --> 00:11:16,175

PRETTY MUCH ALL TRAINED TO

366

00:11:16,242 --> 00:11:17,410

HOPEFULLY TACKLE ANYTHING

367

00:11:17,476 --> 00:11:18,711

THAT COMES IN FRONT OF US

368

00:11:18,778 --> 00:11:28,320

WHILE WE'RE UP HERE.

369

00:11:28,387 --> 00:11:29,055

>> HELLO.

370

00:11:29,121 --> 00:11:29,889

AM IN TENTH GRADE.

371

00:11:29,955 --> 00:11:32,992

MY QUESTION FOR YOU IS P.

372

00:11:33,059 --> 00:11:35,461

HOW LONG WOULD A FIDGET

373

00:11:35,528 --> 00:11:36,796

SPINNER SPIN IN SPACE MOOSE

374

00:11:36,862 --> 00:11:38,431

THAT IS A GOOD QUESTION.

375

00:11:38,497 --> 00:11:45,237

I WILL COUNT ON YOU TO HOLD

376

00:11:45,304 --> 00:11:45,971

IT.

377

00:11:46,038 --> 00:11:47,206

>> HE IS ALWAYS PREPARED.

378

00:11:47,273 --> 00:11:48,707

A LITTLE SPACE BAG HERE.

379

00:11:48,774 --> 00:11:51,010

DOES THAT LOOK FAMILIAR

380

00:11:51,077 --> 00:12:00,920

ANYBODY?

381

00:12:00,986 --> 00:12:03,522

INSIDE OF IT WE GOT A FIDGET

382

00:12:03,589 --> 00:12:04,123

SPINNER.

383

00:12:04,190 --> 00:12:05,591

IT WILL FLOAT AS LONG AS WE

384

00:12:05,658 --> 00:12:06,592

LET GOT IT.

385

00:12:06,659 --> 00:12:09,528

WE HAVE AIR CURRENT SO YOU

386

00:12:09,595 --> 00:12:12,731

GET ROCKETS OF CO2 AROUND

387

00:12:12,798 --> 00:12:13,799

OUR HEADS.

388

00:12:13,866 --> 00:12:14,967

THE SPENDER IS STABLE.

389

00:12:15,034 --> 00:12:16,235

IT WILL SPIN FOR A LONG

390

00:12:16,302 --> 00:12:16,635

TIME.

391

00:12:16,635 --> 00:12:17,803

THE ONLY THING THAT IS

392

00:12:17,870 --> 00:12:18,938

ACHING ON IT RIGHT NOW IS

393

00:12:19,004 --> 00:12:20,940

THE FRICTION FROM THE CENTER

394

00:12:21,006 --> 00:12:22,608

PORTION ON THE ACTUAL PART

395

00:12:22,675 --> 00:12:24,143

THAT IS SPINNING.

396

00:12:24,210 --> 00:12:26,345

AND SO YOU KNOW, IT WILL

397

00:12:26,412 --> 00:12:28,614

SPIN FOR PRETTY DARN LONG

398

00:12:28,681 --> 00:12:30,683

TIME, TECHNICALLY, IT SHOULD

399

00:12:30,749 --> 00:12:33,853

SPIN FOREVER IT F THERE WAS

400

00:12:33,919 --> 00:12:34,987

NOT ANY FECTION ON IN THE

401
00:12:35,054 --> 00:12:35,554
TER PART.

402
00:12:35,554 --> 00:12:36,889
IS FUN TO PLAY WITH.

403
00:12:36,956 --> 00:12:38,390
IT IS NEAT TO BE ABLE TO

404
00:12:38,457 --> 00:12:39,658
HAVE SOMETHING THAT YOU GIES

405
00:12:39,725 --> 00:12:41,861
ON THE GROUND ARE FAMILIAR

406
00:12:41,927 --> 00:12:43,362
WITH AND CAN IDENTIFY WITH

407
00:12:43,429 --> 00:12:44,563
AND DEMONSTRATES YOU KNOW A

408
00:12:44,630 --> 00:12:46,132
LOT OF DIFFERENT PROPERTIES

409
00:12:46,198 --> 00:12:49,735
AND LEARN IN YOUR SCIENCE

410
00:12:49,802 --> 00:12:51,637
CLASS RIGHT HERE IN ZERO

411
00:12:51,704 --> 00:12:57,843
GRAVE TY.

412
00:12:57,910 --> 00:12:59,245
GRAVITY.

413
00:12:59,311 --> 00:12:59,845

>> HIGH NAMES RILEY.

414

00:12:59,912 --> 00:13:00,980

I AM IN EIGHTH GRADE.

415

00:13:01,046 --> 00:13:02,314

MY QUESTION IS.

416

00:13:02,381 --> 00:13:03,916

WHAT SCIENTIFIC EXPERTS HAVE

417

00:13:03,983 --> 00:13:05,417

YOU BEEN WORK ON WHILE ON

418

00:13:05,484 --> 00:13:13,325

THE ISS?

419

00:13:13,392 --> 00:13:14,994

>> LE, WE DO ADRIFT REP

420

00:13:15,060 --> 00:13:15,961

THINGS EVERY DAY.

421

00:13:16,028 --> 00:13:17,329

GAIN, THE MAIN PURPOSE FOR

422

00:13:17,396 --> 00:13:18,797

BEING HERE IS TO CONDUCT

423

00:13:18,864 --> 00:13:21,767

SCIENCE IN THE MICROGRAVITY

424

00:13:21,834 --> 00:13:23,335

ENVIRN, A COUPLE OF ONCE I

425

00:13:23,402 --> 00:13:24,537

FIND INTERESTING THAT IS

426
00:13:24,603 --> 00:13:27,373
WE'RE HUMAN SUBJECTS WE DO A

427
00:13:27,439 --> 00:13:28,941
LOT OF SCIENCE IN HOW THE

428
00:13:29,008 --> 00:13:30,409
HUMAN BODY REACTS IN SPACE.

429
00:13:30,476 --> 00:13:31,744
WE HAVE BEEN COMING TO SPACE

430
00:13:31,810 --> 00:13:33,212
FOR DECADES BUT STILL A LOT

431
00:13:33,279 --> 00:13:35,247
WE DON'T KNOW AND A LOT WE

432
00:13:35,314 --> 00:13:36,749
ARE DISCOVERING AND A LOT WE

433
00:13:36,815 --> 00:13:38,551
NEED TO KNOW WE ARE GOING TO

434
00:13:38,617 --> 00:13:40,085
GO ON TO OTHER PLANETS AND

435
00:13:40,152 --> 00:13:41,654
GO IF YOU ARE THIS WAY THAN

436
00:13:41,720 --> 00:13:42,922
WE'RE TODAY.

437
00:13:42,988 --> 00:13:46,525
SO IT IS INTERESTING YOU

438
00:13:46,592 --> 00:13:47,092

KNOW.

439

00:13:47,092 --> 00:13:47,760

WE HAVE TO DRAW GLAD

440

00:13:47,826 --> 00:13:48,427

OURSELVES.

441

00:13:48,494 --> 00:13:50,229

WE TAKE URINE SAMPLES THAT

442

00:13:50,296 --> 00:13:51,497

GETS SENT BACK TO EARTH.

443

00:13:51,564 --> 00:13:52,665

WE'RE LOOKING AT HOW THE

444

00:13:52,731 --> 00:13:54,400

EYES ARE IMPACTING WHILE WE

445

00:13:54,466 --> 00:13:55,834

ARE UP HERE ON THE SPACE

446

00:13:55,901 --> 00:13:57,102

STATION, THEN ANOTHER NEAT

447

00:13:57,169 --> 00:13:58,337

ONE THAT I JUST WORKED ON

448

00:13:58,404 --> 00:13:59,572

THIS PAST WEEK, AND IT IS

449

00:13:59,638 --> 00:14:00,873

STILL, IT IS ACTUALLY

450

00:14:00,940 --> 00:14:02,041

ONGOING, WE WERE GROWING

451
00:14:02,107 --> 00:14:04,577
SOME WHERE CAN SOME LETTUCE

452
00:14:04,643 --> 00:14:05,311
UP HEAR.

453
00:14:05,377 --> 00:14:06,545
AND FRIDAY WAS THE BIG

454
00:14:06,612 --> 00:14:07,112
HARVEST.

455
00:14:07,112 --> 00:14:09,615
SO YOU CAN SEE, WE PLANTED

456
00:14:09,682 --> 00:14:10,182
IT.

457
00:14:10,249 --> 00:14:11,517
IT GREW.

458
00:14:11,584 --> 00:14:14,553
WE WERE ABLE TO HAVE SOME

459
00:14:14,620 --> 00:14:16,288
FRESH, SOME FRESH PRODUCE ON

460
00:14:16,355 --> 00:14:18,090
FRIDAY, SO IT IS MEAT TO

461
00:14:18,157 --> 00:14:19,491
WATCH SOMETHING GROW FROM A

462
00:14:19,558 --> 00:14:20,926
SEED AND THEN BE ABLE TO

463
00:14:20,993 --> 00:14:22,361

ACTUALLY CONSUME IT AND

464

00:14:22,428 --> 00:14:23,696

AGAIN IF WE ARE GOING TO

465

00:14:23,762 --> 00:14:25,431

EXPLORE AND GO PLACES WE

466

00:14:25,497 --> 00:14:27,066

HAVEN'T BEEN BEFORE, WE NEED

467

00:14:27,132 --> 00:14:29,001

TO LEARN HOW TO CULTIVATE

468

00:14:29,068 --> 00:14:30,436

CROPS IN HOW THEY ARING IF

469

00:14:30,502 --> 00:14:32,738

TO BEHAVE IN THE MICROGRAVE

470

00:14:32,805 --> 00:14:35,341

GRAVITY ENVIRONMENT.

471

00:14:35,407 --> 00:14:36,775

>> HI, MY NAME IS ANN

472

00:14:36,842 --> 00:14:37,342

BROWN.

473

00:14:37,376 --> 00:14:38,844

I AM IN EIGHTH GRADE.

474

00:14:38,911 --> 00:14:40,112

MY QUESTION IS: WHAT DID

475

00:14:40,179 --> 00:14:41,213

YOU HAVE TO DO?

476
00:14:41,280 --> 00:14:43,382
WHAT PROCESS DID YOU HAVE TO

477
00:14:43,449 --> 00:14:44,950
GO THROUGH BE CHOSEN OUT OF

478
00:14:45,017 --> 00:14:46,051
BILLIONS OF OTHER PEOPLE IN

479
00:14:46,118 --> 00:14:47,319
THE WORLD TO BECOME

480
00:14:47,386 --> 00:14:49,088
ASTRONAUT LIVING ON THE

481
00:14:49,154 --> 00:14:49,788
INTERNATIONAL SPACE

482
00:14:49,855 --> 00:14:56,528
STATION?

483
00:14:56,595 --> 00:14:58,230
>> THE AGE OLD SAYING IT IS

484
00:14:58,297 --> 00:14:59,898
BETTER TO BE LUCKY THAN

485
00:14:59,965 --> 00:15:00,499
GOOD.

486
00:15:00,566 --> 00:15:01,433
AS YOU CAN IMAGINE.

487
00:15:01,500 --> 00:15:02,735
I MENTIONED SOME ENEST

488
00:15:02,801 --> 00:15:04,336

THERING THINGS I GOT OUT OF

489

00:15:04,403 --> 00:15:05,838

BEING AT SANTA MONICA HIGH.

490

00:15:05,904 --> 00:15:08,307

WE HAD TO WORK HARD TO BE

491

00:15:08,374 --> 00:15:10,609

ELIGIBLE FOR A SCHOLARSHIP

492

00:15:10,676 --> 00:15:11,810

THEN GETTING OUT THERE AND

493

00:15:11,877 --> 00:15:13,912

YOU KNOW, DON'T WAIT UNTIL

494

00:15:13,979 --> 00:15:15,080

SEASONNIER YEAR.

495

00:15:15,147 --> 00:15:16,515

START LOOK AT SCHOOLS OR

496

00:15:16,582 --> 00:15:17,650

SCHOLARSHIPS OR WHATEVER IT

497

00:15:17,716 --> 00:15:19,385

IS THAT YOU DECIDE YOU WANT

498

00:15:19,451 --> 00:15:20,819

TO DO AFTER STAB MONICA

499

00:15:20,886 --> 00:15:23,122

HIGH.

500

00:15:23,188 --> 00:15:24,323

WHEN I GOT TO COLLEGE, OH,

501
00:15:24,390 --> 00:15:25,658
THE INTERESTING THINGS THAT

502
00:15:25,724 --> 00:15:26,625
I COULD TAKE IN THE

503
00:15:26,692 --> 00:15:27,126
UNIVERSITY.

504
00:15:27,126 --> 00:15:28,961
I ENDED UP TAKING OR

505
00:15:29,028 --> 00:15:32,865
MAJORING IN MATHEMATICS.

506
00:15:32,931 --> 00:15:34,099
AND I LEARN THOUED SOLVE

507
00:15:34,166 --> 00:15:34,533
PROBLEM.

508
00:15:34,533 --> 00:15:35,334
THAT WAS WHAT I LOVE ABOUT

509
00:15:35,401 --> 00:15:35,768
MATH.

510
00:15:35,768 --> 00:15:36,902
DOING WELL IN COLLEGE.

511
00:15:36,969 --> 00:15:40,472
THEN, LEAD ME TO GOING TO

512
00:15:40,539 --> 00:15:42,007
THE MARINE CORPS I WAS

513
00:15:42,074 --> 00:15:43,242

COMMISSIONED AS SECOND

514

00:15:43,309 --> 00:15:43,809

LIEUTENANT.

515

00:15:43,876 --> 00:15:44,943

FROM THERE I WENT TO OUR

516

00:15:45,010 --> 00:15:46,679

BASIC SCHOOL.

517

00:15:46,745 --> 00:15:48,247

I WENT TO FLIGHT SCHOOL.

518

00:15:48,314 --> 00:15:49,982

I LEARNED HOW TO BE A

519

00:15:50,049 --> 00:15:50,549

PILOT.

520

00:15:50,549 --> 00:15:52,951

THEN LEARNING HOW TO DEPLOY

521

00:15:53,018 --> 00:15:55,287

THE TEAM, GETTING TO GO TO

522

00:15:55,354 --> 00:15:56,622

SCHOOLS LIKE TOP GUN AND THE

523

00:15:56,689 --> 00:15:58,457

WEAPONS SCHOOL, THEN, YOU

524

00:15:58,524 --> 00:15:59,992

KNOW, WE BO TO TEST PILOT

525

00:16:00,059 --> 00:16:01,260

SCHOOL AND BECOMING A TEST

526
00:16:01,327 --> 00:16:02,728
PILOT.

527
00:16:02,795 --> 00:16:05,564
A TEST PILOT INSTRUCTOR THEN

528
00:16:05,631 --> 00:16:06,665
BECOMING ASTRONAUT ALL OF

529
00:16:06,732 --> 00:16:07,966
THESE THINGS LEAD TO THAT

530
00:16:08,033 --> 00:16:09,968
POINT AND WHAT DO YOU HEAR

531
00:16:10,035 --> 00:16:11,370
IN THE SCHEME OF THAT?

532
00:16:11,437 --> 00:16:12,471
WELL, LEARNING.

533
00:16:12,538 --> 00:16:13,172
LEARNING.

534
00:16:13,238 --> 00:16:14,640
LEARNING THE ENTIRE TIME.

535
00:16:14,707 --> 00:16:16,442
THAT DIDN'T STOP WHEN I

536
00:16:16,508 --> 00:16:18,610
BECAME AN ASTRONAUT.

537
00:16:18,677 --> 00:16:19,645
WE WERE IN CLASS LEARNING

538
00:16:19,712 --> 00:16:22,281

ABOUT DYNAMICS, THRUSTERS,

539

00:16:22,348 --> 00:16:23,248

ENVIRONMENTAL CONTROL

540

00:16:23,315 --> 00:16:25,217

SYSTEMS, AND SO THE THING

541

00:16:25,284 --> 00:16:26,752

THAT, YOU KNOW, I THINK YOU

542

00:16:26,819 --> 00:16:28,053

WILL SEE A SIMILARITY IF YOU

543

00:16:28,120 --> 00:16:29,855

LOOK TA THE ASTRONAUTS IS, A

544

00:16:29,922 --> 00:16:31,423

LIFETIME OF LASHING.

545

00:16:31,490 --> 00:16:32,658

LEARNING SOMETHING NEW EVERY

546

00:16:32,725 --> 00:16:35,160

DAY.

WE DO THIS STILL UP HERE ON

547

00:16:35,227 --> 00:16:36,628

THE SPACE MISSIONS.

548

00:16:36,695 --> 00:16:37,463

ENJOY LEARNING.

549

00:16:37,529 --> 00:16:38,931

BECAUSE IT IS JUST SO MUCH

550

00:16:38,997 --> 00:16:41,400

INTERESTING STUFF.

551

00:16:41,467 --> 00:16:42,067

SO MUCH THINGS ABOUT OTHER

552

00:16:42,134 --> 00:16:43,168

DIFFERENT PEOPLE OR HAIR

553

00:16:43,235 --> 00:16:43,802

CULTURES AND STUFF AROUND

554

00:16:43,869 --> 00:16:44,470

THE WORLD THAT, YOU KNOW,

555

00:16:44,536 --> 00:16:45,971

YOU WON'T BE DISAPPOINTED

556

00:16:46,038 --> 00:16:47,072

OPENING YOURSELF UP TO NEW

557

00:16:47,139 --> 00:16:49,274

OPPORTUNITIES.

558

00:17:05,724 --> 00:17:06,625

>> SO WE'RE A SOLAR-POWERED

559

00:17:06,692 --> 00:17:07,226

CITY UP HERE.

560

00:17:07,292 --> 00:17:08,460

THAT IS THE MAJORITY OF WHAT

561

00:17:08,527 --> 00:17:09,027

WE USE.

562

00:17:09,094 --> 00:17:10,329

WE HAVE THE HUGE SOLAR

563

00:17:10,396 --> 00:17:11,630
PANELS ON THE OUTSIDE.

564
00:17:11,697 --> 00:17:12,564
AND THAT WAS WHAT WE ARE

565
00:17:12,631 --> 00:17:13,265
LIVING ON.

566
00:17:13,332 --> 00:17:16,702
AND WE DO HAVE A FEW THINGS

567
00:17:16,769 --> 00:17:18,904
LIKE THIS MICROPHONE AND,

568
00:17:18,971 --> 00:17:20,339
YOU KNOW, THE CAMERAS, SOME

569
00:17:20,406 --> 00:17:21,907
EQUIPMENT THAT WE HAVE USES

570
00:17:21,974 --> 00:17:23,275
THE REGULAR BATTERIES THAT

571
00:17:23,342 --> 00:17:24,743
YOU MIGHT USE THERE, YOU

572
00:17:24,810 --> 00:17:29,615
KNOW, THE AA, AAA'S, C AND

573
00:17:29,681 --> 00:17:30,182
VOLT.

574
00:17:30,249 --> 00:17:32,050
WE'RE ALL SOLAR POWERED

575
00:17:32,117 --> 00:17:32,951
WHICH IS PRETTY NEAT WHEN

576

00:17:33,018 --> 00:17:33,786

THE SUN IS OUT.

577

00:17:33,852 --> 00:17:36,755

YOU KNOW FOR 45 MINAS DAY OR

578

00:17:36,822 --> 00:17:38,223

45 MINUTES AT TIME WE ARE CO

579

00:17:38,290 --> 00:17:39,792

LEEING ALL OF THAT SOLAR

580

00:17:39,858 --> 00:17:41,994

POWER WHEN THE SUNSETS, IF

581

00:17:42,060 --> 00:17:43,929

FOR ANOTHER 45 MINUTES WE

582

00:17:43,996 --> 00:17:46,265

HAVE OUR BATTERIES WE CAN

583

00:17:46,331 --> 00:17:47,466

DRAW THE POWER FROM.

584

00:17:47,533 --> 00:17:49,268

IT IS A GREAT EXAMPLE OF HOW

585

00:17:49,334 --> 00:17:50,936

YOU CAN SEUSS THE SUN IN AN

586

00:17:51,003 --> 00:17:53,439

EFFECT OF WAY TO POWER THE

587

00:17:53,505 --> 00:18:11,056

NEAT LABORATORY.

588

00:18:18,764 --> 00:18:19,264
>> GOOD.

589
00:18:19,331 --> 00:18:20,466
GOOD QUESTION.

590
00:18:20,532 --> 00:18:22,034
NOW THERE HAS BEEN A LITTLE

591
00:18:22,100 --> 00:18:23,135
BIT OF DISAGREEMENT.

592
00:18:23,202 --> 00:18:24,570
I WAS, YOU KNOW, FORTUNATE

593
00:18:24,636 --> 00:18:26,605
TO BE ON THE INSIDE ON MY

594
00:18:26,672 --> 00:18:27,906
FIRST SPACEFLIGHT WHEN THE

595
00:18:27,973 --> 00:18:29,041
CREW CAME IN, WHEN YOU OPEN

596
00:18:29,107 --> 00:18:30,843
THE HATCH, AFTER WE

597
00:18:30,909 --> 00:18:32,177
REPRESSURIZED IT AFTER THE

598
00:18:32,244 --> 00:18:34,079
SPACEWALK, YOU CAN BE RIGHT

599
00:18:34,146 --> 00:18:34,880
THERE AND GET STRONG SENSE

600
00:18:34,947 --> 00:18:35,881
OF A SMELL OF SPACE.

601
00:18:35,948 --> 00:18:37,616
SO I HAD ANOTHER CREWMEMBER,

602
00:18:37,683 --> 00:18:39,218
NICOLE, WAS RIGHT THERE.

603
00:18:39,284 --> 00:18:40,486
WE BOTH SMELLED IT.

604
00:18:40,552 --> 00:18:42,654
I DIDN'T WANT TO SWAY HER,

605
00:18:42,721 --> 00:18:43,989
YOU KNOW, DECISION AT ALL.

606
00:18:44,056 --> 00:18:45,390
I ASKED HER WHAT DOES IT

607
00:18:45,457 --> 00:18:46,492
SMELL LIKE TO YOU?

608
00:18:46,558 --> 00:18:47,292
THE ANSWER WAS THE SAME

609
00:18:47,359 --> 00:18:48,660
THING I WAS THINKING OF.

610
00:18:48,727 --> 00:18:49,962
THE ANSWER WAS CREAM OF

611
00:18:50,028 --> 00:18:51,463
MUSHROOM SOUP.

612
00:18:51,530 --> 00:18:53,265
THIS TIME, I DIDN'T GET TO

613

00:18:53,332 --> 00:18:56,468
BE INSIDE WHEN WE CAME IN.

614
00:18:56,535 --> 00:18:58,003
SO THERE WAS SOME OTHER

615
00:18:58,070 --> 00:18:59,171
OPINIONS ON THAT.

616
00:18:59,238 --> 00:19:00,806
WHAT DO YOU THINK, JOE?

617
00:19:00,873 --> 00:19:02,474
>> I DON'T KNOW WHAT KIND OF

618
00:19:02,541 --> 00:19:05,344
CREAM OF MUSHROOM SOUP ARE

619
00:19:05,410 --> 00:19:05,910
EATING.

620
00:19:05,911 --> 00:19:07,179
FEEL LIKE IS METALLIC TYPE

621
00:19:07,246 --> 00:19:08,680
OF SMELL AND INTERESTING

622
00:19:08,747 --> 00:19:10,115
WHEN I FIRST ARRIVED, THE

623
00:19:10,182 --> 00:19:11,683
SMELL OF THE SPACE STATION

624
00:19:11,750 --> 00:19:13,652
ITSELF IS VERY UNIQUE AND AS

625
00:19:13,719 --> 00:19:15,087
SOON AS I GOT HERE, IT

626

00:19:15,153 --> 00:19:16,989

BECAME VERY, VERY FAMILIAR

627

00:19:17,055 --> 00:19:18,457

AND YOU KNOW, NOW IT IS

628

00:19:18,524 --> 00:19:20,025

JUST, IT IS ALL OVER US, SO

629

00:19:20,092 --> 00:19:22,895

I THINK WE HAVE THE, THE

630

00:19:22,961 --> 00:19:27,199

SPACE ON US.

631

00:19:27,266 --> 00:19:28,300

>> THANKS SO MUCH FOR

632

00:19:28,367 --> 00:19:29,501

PROVIDING THIS AMAZING

633

00:19:29,568 --> 00:19:31,203

OPPORTUNITY TO THE STUDENTS

634

00:19:31,270 --> 00:19:32,437

OF SANTA MONICA HIGH.

635

00:19:32,504 --> 00:19:34,206

WE HOPE WHEN YOU ARE BACK ON

636

00:19:34,273 --> 00:19:35,641

EARTH, YOU WILL COME SEE US

637

00:19:35,707 --> 00:19:40,445

SOON.

638

00:19:40,512 --> 00:19:42,748
>> WE WOULD LOVE TO JOAN I

639
00:19:42,814 --> 00:19:43,982
BEING FROM SOCAL.

640
00:19:44,049 --> 00:19:45,284
WE APPRECIATE THAT VERY

641
00:19:45,350 --> 00:19:45,651
MUCH.

642
00:19:45,651 --> 00:19:47,419
WE LOOK FORWARD TO YOU

643
00:19:47,486 --> 00:19:49,054
HAVING A SAFE AND SUCCESSFUL

644
00:19:49,121 --> 00:19:50,155
YEAR AND LOOK FORWARD TO

645
00:19:50,222 --> 00:19:51,490
HEARING ABOUT THE GRADUATION

646
00:19:51,557 --> 00:19:53,458
CLASS OF 2018.

647
00:19:53,525 --> 00:19:55,060
LAST THING I HAVE TO SAY IS

648
00:19:55,127 --> 00:20:06,138
GO, VIKINGS!

649
00:20:06,204 --> 00:20:07,773
>> THANK YOU 12 PARTIES PANS

650
00:20:07,839 --> 00:20:10,475
FROM SANTA MONICA HIGH

651

00:20:10,542 --> 00:20:11,076

SCHOOL.