



1
00:01:06,360 --> 00:00:19,840

[Music]

2
00:01:10,930 --> 00:01:08,860

all right good afternoon and welcome I

3
00:01:12,520 --> 00:01:10,940

am Joshua Santoro sorry for being a few

4
00:01:14,530 --> 00:01:12,530

minutes late working technical

5
00:01:16,570 --> 00:01:14,540

difficulties because I'm not at the

6
00:01:18,160 --> 00:01:16,580

Kennedy Space Center today although

7
00:01:20,469 --> 00:01:18,170

that's why normally report for work I'm

8
00:01:22,719 --> 00:01:20,479

at my house so appreciate you joining us

9
00:01:25,060 --> 00:01:22,729

and today we are super excited because

10
00:01:30,500 --> 00:01:25,070

we're talking about humans in space here

11
00:01:30,510 --> 00:01:33,770

[Music]

12
00:01:39,420 --> 00:01:36,960

as a nice Neil Armstrong Buzz Aldrin and

13
00:01:40,410 --> 00:01:39,430

then Ronny Mike Collins now boarding the

14

00:01:43,020 --> 00:01:40,420

transfer van

15

00:01:46,950 --> 00:01:43,030

brother trip to the lunch last you hear

16

00:01:48,810 --> 00:01:46,960

our cameras as it comes out

17

00:01:50,790 --> 00:01:48,820

this is a very historical walkway it's

18

00:01:52,370 --> 00:01:50,800

the same path that the Apollo astronauts

19

00:01:54,600 --> 00:01:52,380

took to go to the moon

20

00:01:56,060 --> 00:01:54,610

applying pool now the planning from

21

00:02:06,310 --> 00:01:56,070

there to quarters

22

00:02:06,320 --> 00:02:09,660

[Music]

23

00:02:14,980 --> 00:02:12,130

so incredible amounts of history

24

00:02:17,290 --> 00:02:14,990

forthcoming there you see may 27 20 20

25

00:02:19,840 --> 00:02:17,300

we are super excited as we talk about

26

00:02:21,700 --> 00:02:19,850

the spaceport series specifically today

27

00:02:24,940 --> 00:02:21,710

we are talking about the Commercial Crew

28

00:02:26,670 --> 00:02:24,950

program so without any further ado I

29

00:02:29,400 --> 00:02:26,680

want to introduce my two guests today

30

00:02:31,780 --> 00:02:29,410

two ladies who I've had the extreme

31

00:02:34,720 --> 00:02:31,790

privilege of working with over my career

32

00:02:35,760 --> 00:02:34,730

we have today Marie Lewis thanks for

33

00:02:38,410 --> 00:02:35,770

being here with me

34

00:02:40,270 --> 00:02:38,420

of course I hope my internet cooperates

35

00:02:41,230 --> 00:02:40,280

yeah so technical difficulties that's

36

00:02:42,490 --> 00:02:41,240

all right we're getting there we're

37

00:02:44,800 --> 00:02:42,500

gonna make it happen and then Jen

38

00:02:47,050 --> 00:02:44,810

Hudgens one of our phenomenal educators

39

00:02:50,110 --> 00:02:47,060

here for NASA yes that's correct

40

00:02:51,699 --> 00:02:50,120

so even teachers are employees of NASA

41

00:02:54,160 --> 00:02:51,709

Jen thanks again for being here

42

00:02:57,190 --> 00:02:54,170

yeah thanks for having me I'm super

43

00:02:58,810 --> 00:02:57,200

excited cool so I want to jump right in

44

00:03:00,880 --> 00:02:58,820

here and kind of cycle back for those

45

00:03:02,560 --> 00:03:00,890

that may not be familiar Marie you work

46

00:03:04,270 --> 00:03:02,570

in public affairs supporting the

47

00:03:06,310 --> 00:03:04,280

Commercial Crew program and half of the

48

00:03:08,310 --> 00:03:06,320

past couple years so what is Commercial

49

00:03:11,530 --> 00:03:08,320

Crew give me that high level overview

50

00:03:14,380 --> 00:03:11,540

sure so the Commercial Crew program is a

51
00:03:16,479 --> 00:03:14,390
way for us to have safe reliable and

52
00:03:18,250 --> 00:03:16,489
cost-effective transportation for

53
00:03:20,470 --> 00:03:18,260
astronauts to the International Space

54
00:03:22,600 --> 00:03:20,480
Station so we haven't had that launch

55
00:03:24,009 --> 00:03:22,610
capability from here in the United

56
00:03:26,949 --> 00:03:24,019
States since the Space Shuttle was

57
00:03:28,390 --> 00:03:26,959
retired in 2011 since then we've had a

58
00:03:29,470 --> 00:03:28,400
great partnership with Russia

59
00:03:31,630 --> 00:03:29,480
they've been launching our NASA

60
00:03:34,449 --> 00:03:31,640
astronauts to the space station for us

61
00:03:35,860 --> 00:03:34,459
since that time so we are super pumped

62
00:03:38,080 --> 00:03:35,870
because we're gonna be launching

63
00:03:39,699 --> 00:03:38,090

American astronauts on American rockets

64

00:03:41,910 --> 00:03:39,709

and spacecraft for the first time in

65

00:03:44,440 --> 00:03:41,920

nine years in just a few weeks

66

00:03:45,910 --> 00:03:44,450

okay so thinking about those American

67

00:03:47,920 --> 00:03:45,920

rockets and spacecraft give me just a

68

00:03:50,220 --> 00:03:47,930

real quick overview what are what is the

69

00:03:53,050 --> 00:03:50,230

rocket and spacecraft for this mission

70

00:03:55,270 --> 00:03:53,060

yep so for this mission our partner

71

00:03:57,220 --> 00:03:55,280

SpaceX will be launching the astronauts

72

00:03:58,900 --> 00:03:57,230

top thinkin and Dunkerley on the crew

73

00:04:01,240 --> 00:03:58,910

Dragon spacecraft you see right there

74

00:04:04,300 --> 00:04:01,250

and that will be launched on top of the

75

00:04:05,770 --> 00:04:04,310

SpaceX Falcon 9 rocket what's really

76

00:04:07,360 --> 00:04:05,780

special about this particular one is

77

00:04:09,550 --> 00:04:07,370

they will bring him back the nasa worm

78

00:04:13,150 --> 00:04:09,560

you see it there on the side there and

79

00:04:15,640 --> 00:04:13,160

so really just so thrilled for this it's

80

00:04:18,190 --> 00:04:15,650

been a major crunch getting ready for

81

00:04:19,690 --> 00:04:18,200

this mission and with all of us working

82

00:04:21,310 --> 00:04:19,700

at home and dealing with

83

00:04:23,560 --> 00:04:21,320

all difficulties you know with our

84

00:04:27,070 --> 00:04:23,570

internet and so forth has been it's been

85

00:04:28,960 --> 00:04:27,080

a challenging time but really one that

86

00:04:31,510 --> 00:04:28,970

kind of fills us all with pride because

87

00:04:33,310 --> 00:04:31,520

we're so close now and we're almost

88

00:04:35,310 --> 00:04:33,320

there and we're so excited to bring this

89

00:04:37,240 --> 00:04:35,320

to the rest of the country in the world

90

00:04:38,980 --> 00:04:37,250

yeah I want to take a quick second and

91

00:04:41,170 --> 00:04:38,990

remind our viewers today if you're

92

00:04:42,790 --> 00:04:41,180

watching on the live stream feel free to

93

00:04:44,140 --> 00:04:42,800

submit questions in the chat window

94

00:04:46,660 --> 00:04:44,150

there we'd love to have those as we go

95

00:04:47,830 --> 00:04:46,670

through this conversation also be sure

96

00:04:48,790 --> 00:04:47,840

to subscribe to the channel and let us

97

00:04:51,790 --> 00:04:48,800

know what you want to see in future

98

00:04:53,620 --> 00:04:51,800

episodes so plug in right back along so

99

00:04:55,180 --> 00:04:53,630

demo2 is this mission Murry why is demo2

100

00:04:58,270 --> 00:04:55,190

so important why is this one so

101
00:05:00,820 --> 00:04:58,280
important well like I said this is gonna

102
00:05:02,670 --> 00:05:00,830
be the first time in nine years that

103
00:05:04,960 --> 00:05:02,680
we've had the capability to launch

104
00:05:07,060 --> 00:05:04,970
astronauts from US soil to the

105
00:05:09,700 --> 00:05:07,070
International Space Station so it's a

106
00:05:11,380 --> 00:05:09,710
first in nine years and beyond that I

107
00:05:14,530 --> 00:05:11,390
mean this is what's really setting the

108
00:05:16,360 --> 00:05:14,540
stage for regular rotational missions on

109
00:05:18,640 --> 00:05:16,370
both of our providers SpaceX and Boeing

110
00:05:19,390 --> 00:05:18,650
to the International Space Station why

111
00:05:21,310 --> 00:05:19,400
is that important

112
00:05:23,500 --> 00:05:21,320
when we have the capability to launch

113
00:05:25,660 --> 00:05:23,510

astronauts with both of our providers we

114

00:05:27,310 --> 00:05:25,670

can have more astronauts on station that

115

00:05:30,940 --> 00:05:27,320

translates to more time to do research

116

00:05:33,220 --> 00:05:30,950

and that research has more benefits than

117

00:05:35,380 --> 00:05:33,230

I could possibly cram into the time we

118

00:05:38,170 --> 00:05:35,390

have here but they're basically twofold

119

00:05:40,510 --> 00:05:38,180

I mean one it helps us figure out how we

120

00:05:43,300 --> 00:05:40,520

can go even farther into space than we

121

00:05:45,880 --> 00:05:43,310

ever have before how we can have

122

00:05:47,680 --> 00:05:45,890

life-sustaining systems for astronauts

123

00:05:51,700 --> 00:05:47,690

that are going farther and eventually to

124

00:05:53,710 --> 00:05:51,710

them to Mars and then also it it opens

125

00:05:55,330 --> 00:05:53,720

up the door to all these technology

126
00:05:57,460 --> 00:05:55,340
advancements that improve life here on

127
00:06:00,160 --> 00:05:57,470
earth everything from you know small

128
00:06:03,130 --> 00:06:00,170
conveniences to life-saving robotic

129
00:06:05,770 --> 00:06:03,140
surgery so the benefits of this research

130
00:06:07,420 --> 00:06:05,780
are just endless and the more astronauts

131
00:06:10,120 --> 00:06:07,430
we have that can be dedicated to

132
00:06:12,580 --> 00:06:10,130
research time on station the better so

133
00:06:15,010 --> 00:06:12,590
Murray is that really why is that why we

134
00:06:16,720 --> 00:06:15,020
find that the average person should care

135
00:06:18,310 --> 00:06:16,730
this is one of the things that can be

136
00:06:19,510 --> 00:06:18,320
difficult some days like people can love

137
00:06:22,330 --> 00:06:19,520
what we do they think it's really cool

138
00:06:23,950 --> 00:06:22,340

and amazing but is it the spaceflight is

139

00:06:28,390 --> 00:06:23,960

it the research wise is relatable for

140

00:06:31,030 --> 00:06:28,400

people around America I mean for me

141

00:06:33,250 --> 00:06:31,040

personally I think about like I said

142

00:06:35,410 --> 00:06:33,260

that some of that life-changing

143

00:06:37,480 --> 00:06:35,420

acknowledge II I mean obviously watching

144

00:06:40,210 --> 00:06:37,490

people on a rocket is always inspiring

145

00:06:42,100 --> 00:06:40,220

right but I think a lot of times people

146

00:06:44,860 --> 00:06:42,110

don't realize the amount of spin-off

147

00:06:48,100 --> 00:06:44,870

technology that we have that that

148

00:06:49,660 --> 00:06:48,110

permeates their lives every day in in

149

00:06:52,360 --> 00:06:49,670

more ways than we can count

150

00:06:55,480 --> 00:06:52,370

so I mean all of that all of that comes

151
00:06:58,380 --> 00:06:55,490
back around to help people all over the

152
00:06:59,500 --> 00:06:58,390
planet have a better quality of life

153
00:07:01,660 --> 00:06:59,510
awesome

154
00:07:03,730 --> 00:07:01,670
yeah that's great so Jen as an educator

155
00:07:06,550 --> 00:07:03,740
I know that there's been a team working

156
00:07:09,460 --> 00:07:06,560
on a lot of things for people to do to

157
00:07:11,500 --> 00:07:09,470
interact more with this idea because

158
00:07:14,200 --> 00:07:11,510
obviously that research it takes time

159
00:07:16,180 --> 00:07:14,210
it's there people may not see it it's

160
00:07:17,860 --> 00:07:16,190
not tangible they can't hold it but that

161
00:07:20,230 --> 00:07:17,870
impact is so important but for you guys

162
00:07:22,450 --> 00:07:20,240
as educators you're working on making

163
00:07:23,680 --> 00:07:22,460

some things that help get people excited

164

00:07:27,400 --> 00:07:23,690

can you talk about what you're working

165

00:07:30,160 --> 00:07:27,410

on absolutely Joshua my team and I have

166

00:07:31,930 --> 00:07:30,170

been working really hard to make some

167

00:07:34,840 --> 00:07:31,940

products and activities to engage

168

00:07:36,580 --> 00:07:34,850

students in what's currently happening

169

00:07:38,260 --> 00:07:36,590

with these crude launches that are

170

00:07:40,930 --> 00:07:38,270

getting ready to happen we want to

171

00:07:43,930 --> 00:07:40,940

inspire our future generations to pursue

172

00:07:45,460 --> 00:07:43,940

careers in stem because to be honest

173

00:07:48,130 --> 00:07:45,470

NASA is going to need that workforce

174

00:07:49,840 --> 00:07:48,140

coming in the future and the best way to

175

00:07:52,300 --> 00:07:49,850

do it is to engage them with what's

176
00:07:54,160 --> 00:07:52,310
currently happening at NASA so we've

177
00:07:56,470 --> 00:07:54,170
developed several different kinds of

178
00:07:58,960 --> 00:07:56,480
activities and ways to engage with

179
00:08:02,530 --> 00:07:58,970
students we have engineering design

180
00:08:05,260 --> 00:08:02,540
challenges that are the topics are

181
00:08:08,020 --> 00:08:05,270
around our crewed missions our

182
00:08:10,120 --> 00:08:08,030
Commercial Crew program and these

183
00:08:11,680 --> 00:08:10,130
activities are kindergarten all the way

184
00:08:13,570 --> 00:08:11,690
up through 12th grade so we've included

185
00:08:16,210 --> 00:08:13,580
the entire spectrum of our student

186
00:08:18,100 --> 00:08:16,220
population we have classroom activities

187
00:08:22,540 --> 00:08:18,110
that engage students with technology

188
00:08:26,500 --> 00:08:22,550

like coding we have virtual tours that

189

00:08:28,300 --> 00:08:26,510

you can take 360 virtual tours of

190

00:08:30,880 --> 00:08:28,310

facilities and places that you can't

191

00:08:33,100 --> 00:08:30,890

normally go and as a general public and

192

00:08:35,740 --> 00:08:33,110

we also have opportunities for digital

193

00:08:37,450 --> 00:08:35,750

learning for example there's a new app

194

00:08:39,630 --> 00:08:37,460

that we've developed called ride to

195

00:08:43,240 --> 00:08:39,640

station where students can actually

196

00:08:44,950 --> 00:08:43,250

choose their crew weather or their

197

00:08:46,610 --> 00:08:44,960

partner if they want to be Boeing or if

198

00:08:48,470 --> 00:08:46,620

they want to be SpaceX for that

199

00:08:51,320 --> 00:08:48,480

launched they have to choose their

200

00:08:53,120 --> 00:08:51,330

astronaut team based on the careers and

201
00:08:55,310 --> 00:08:53,130
the background of the astronauts in the

202
00:08:57,530 --> 00:08:55,320
mission that they've selected they get

203
00:08:59,840 --> 00:08:57,540
to put their Rockets together and launch

204
00:09:01,850 --> 00:08:59,850
them and then using the physics that

205
00:09:02,990 --> 00:09:01,860
they are learning through the app they

206
00:09:05,810 --> 00:09:03,000
have to actually dock with the

207
00:09:07,850 --> 00:09:05,820
International Space Station so we've

208
00:09:10,579 --> 00:09:07,860
actually created a challenge around this

209
00:09:13,910 --> 00:09:10,589
app that will be launched next month

210
00:09:17,800 --> 00:09:13,920
well mid-may that students can enter the

211
00:09:21,350 --> 00:09:17,810
challenge and create their own coding

212
00:09:24,230 --> 00:09:21,360
their own code and create their own

213
00:09:27,470 --> 00:09:24,240

video game around this Rida's station

214

00:09:28,970 --> 00:09:27,480

app I did like quickly mention the

215

00:09:31,579 --> 00:09:28,980

virtual tours that we have there's

216

00:09:34,480 --> 00:09:31,589

actually seven videos that take you

217

00:09:38,210 --> 00:09:34,490

behind the scenes of Boeing and SpaceX

218

00:09:40,940 --> 00:09:38,220

facilities how they put their Rockets

219

00:09:43,310 --> 00:09:40,950

together what the Mission Control Room

220

00:09:44,720 --> 00:09:43,320

looks like in Houston you can even go

221

00:09:46,190 --> 00:09:44,730

swimming in a swimming pool with an

222

00:09:48,740 --> 00:09:46,200

astronaut and you feel like you're in

223

00:09:52,220 --> 00:09:48,750

the swimming pool we heard from our our

224

00:09:55,640 --> 00:09:52,230

Center Director Bob Cabana that it was

225

00:09:57,500 --> 00:09:55,650

the closest way that he felt like he was

226

00:09:59,360 --> 00:09:57,510

actually in the pool it was very similar

227

00:10:01,519 --> 00:09:59,370

to actually training like an astronaut

228

00:10:03,050 --> 00:10:01,529

so students all around the country can

229

00:10:05,990 --> 00:10:03,060

train like astronauts through these

230

00:10:08,000 --> 00:10:06,000

virtual tours so that's a good quick

231

00:10:09,949 --> 00:10:08,010

snapshot of what we've developed for the

232

00:10:12,350 --> 00:10:09,959

Commercial Crew program and the next gen

233

00:10:14,480 --> 00:10:12,360

stem activities and I really encourage

234

00:10:17,930 --> 00:10:14,490

you to check them out at our website

235

00:10:19,910 --> 00:10:17,940

it's at nasa.gov backslash them I think

236

00:10:23,390 --> 00:10:19,920

we have a screenshot of that Joshua of

237

00:10:25,640 --> 00:10:23,400

that website and you can find all of

238

00:10:28,280 --> 00:10:25,650

those Commercial Crew activities from K

239

00:10:29,930 --> 00:10:28,290
to 12 all the way up so thanks for

240

00:10:31,760 --> 00:10:29,940
letting me chat with you guys and I

241

00:10:34,460 --> 00:10:31,770
really encourage you to get involved in

242

00:10:35,900 --> 00:10:34,470
what we have to offer for you yeah

243

00:10:38,420 --> 00:10:35,910
thanks Jenn appreciate that obviously I

244

00:10:42,800 --> 00:10:38,430
know there's lots more to come with all

245

00:10:44,570 --> 00:10:42,810
that so thinking about the future gen

246

00:10:48,260 --> 00:10:44,580
for you guys what are you looking at as

247

00:10:49,610 --> 00:10:48,270
far as ways to also engage with people

248

00:10:50,960 --> 00:10:49,620
that are out there as we get ready to

249

00:10:52,280 --> 00:10:50,970
launch because obviously launch is an

250

00:10:53,870 --> 00:10:52,290
exciting time are there other things

251
00:10:55,520 --> 00:10:53,880
that you guys are doing to kind of say

252
00:10:56,790 --> 00:10:55,530
hey let's pay special attention to

253
00:10:59,290 --> 00:10:56,800
what's happening

254
00:11:02,380 --> 00:10:59,300
absolutely so we've developed a launch

255
00:11:04,930 --> 00:11:02,390
kit and we'll have a page on NASA's

256
00:11:06,850 --> 00:11:04,940
website where you can go find out

257
00:11:08,350 --> 00:11:06,860
minute-to-minute what's happening with

258
00:11:10,780 --> 00:11:08,360
the crew as they're getting ready for

259
00:11:13,060 --> 00:11:10,790
launch if you're a teacher or a parent

260
00:11:15,579 --> 00:11:13,070
that's home with your students there are

261
00:11:18,639 --> 00:11:15,589
resources that you can look at print or

262
00:11:22,530 --> 00:11:18,649
download create your own posters way to

263
00:11:24,940 --> 00:11:22,540

engage social media wise how to watch

264

00:11:26,949 --> 00:11:24,950

videos that we put together we have

265

00:11:29,079 --> 00:11:26,959

explainer videos what's this all about

266

00:11:32,019 --> 00:11:29,089

things that you can use to engage with

267

00:11:34,030 --> 00:11:32,029

your students and how to get involved

268

00:11:35,980 --> 00:11:34,040

social media wise like that challenge I

269

00:11:39,550 --> 00:11:35,990

mentioned write a station so that's all

270

00:11:42,000 --> 00:11:39,560

part of our virtual media outlet for

271

00:11:44,170 --> 00:11:42,010

this new this crude launch next month

272

00:11:46,329 --> 00:11:44,180

awesome yeah like Jen said nasa.gov

273

00:11:47,620 --> 00:11:46,339

slash stem check that out lots of cool

274

00:11:49,060 --> 00:11:47,630

things there even beyond Commercial Crew

275

00:11:52,090 --> 00:11:49,070

related stuff there's a ton of good

276

00:11:54,130 --> 00:11:52,100

things also the nasa.gov slash NASA at

277

00:11:56,280 --> 00:11:54,140

home also more resources there for you

278

00:11:57,970 --> 00:11:56,290

Murray thinking about Commercial Crew

279

00:11:59,230 --> 00:11:57,980

obviously like there's a lot of

280

00:12:01,269 --> 00:11:59,240

attention being poured on this right now

281

00:12:03,190 --> 00:12:01,279

for very good reasons but how does this

282

00:12:05,730 --> 00:12:03,200

differ from NASA programs of the past

283

00:12:08,139 --> 00:12:05,740

thinking about Mercury Gemini Apollo

284

00:12:11,170 --> 00:12:08,149

shuttle this is very different how is

285

00:12:13,449 --> 00:12:11,180

that so yeah it definitely is

286

00:12:16,240 --> 00:12:13,459

I mean if you think about every time

287

00:12:18,970 --> 00:12:16,250

we've launched astronauts from US soil

288

00:12:21,389 --> 00:12:18,980

to the space station or the moon or

289

00:12:23,290 --> 00:12:21,399

anywhere else it's been on a NASA

290

00:12:25,540 --> 00:12:23,300

spacecraft it's been on a

291

00:12:26,860 --> 00:12:25,550

government-owned spacecraft and rocket

292

00:12:29,460 --> 00:12:26,870

this is the first time we're going to be

293

00:12:31,870 --> 00:12:29,470

launching people to space on a

294

00:12:34,000 --> 00:12:31,880

commercially built spacecraft and

295

00:12:36,970 --> 00:12:34,010

rockets so that is really significant

296

00:12:38,980 --> 00:12:36,980

and it's been made possible because

297

00:12:41,980 --> 00:12:38,990

we've had this amazing collaborative

298

00:12:43,420 --> 00:12:41,990

partnership with SpaceX and with Boeing

299

00:12:46,389 --> 00:12:43,430

who's been working on developing their

300

00:12:49,660 --> 00:12:46,399

system as well but it's been a really

301
00:12:51,760 --> 00:12:49,670
unique kind of working environment and

302
00:12:54,610 --> 00:12:51,770
it's provided new insights we've

303
00:12:56,530 --> 00:12:54,620
challenged each other on ways of doing

304
00:12:59,500 --> 00:12:56,540
things and way to think through and test

305
00:13:02,290 --> 00:12:59,510
things so this is really truly the first

306
00:13:03,699 --> 00:13:02,300
of its kind yeah that's awesome and I

307
00:13:05,540 --> 00:13:03,709
think that for most people obviously

308
00:13:07,520 --> 00:13:05,550
it's a really good understanding of

309
00:13:09,800 --> 00:13:07,530
good to understand what that difference

310
00:13:11,540 --> 00:13:09,810
is I think that what we don't have time

311
00:13:13,670 --> 00:13:11,550
for today is kind of getting into the

312
00:13:15,430 --> 00:13:13,680
weeds of practically how that changes

313
00:13:17,720 --> 00:13:15,440

our world when we interact with them

314

00:13:20,600 --> 00:13:17,730

like you said phenomenal partnerships

315

00:13:21,860 --> 00:13:20,610

with both companies just lots of fun new

316

00:13:24,770 --> 00:13:21,870

adventures new challenges all the time

317

00:13:27,470 --> 00:13:24,780

but we are less than a month away from

318

00:13:29,750 --> 00:13:27,480

this launch scheduled for May 27th so

319

00:13:32,150 --> 00:13:29,760

excited cannot wait Maria I know that

320

00:13:34,190 --> 00:13:32,160

you'll actually be hosting the launch

321

00:13:36,230 --> 00:13:34,200

broadcast that's the plan I'm so excited

322

00:13:37,700 --> 00:13:36,240

for that and I know you'll have a

323

00:13:40,130 --> 00:13:37,710

special guest probably not talking about

324

00:13:41,750 --> 00:13:40,140

who that is yet but exciting to know

325

00:13:43,670 --> 00:13:41,760

that's coming up what else should people

326

00:13:46,790 --> 00:13:43,680

be looking forward to between now and

327

00:13:48,470 --> 00:13:46,800

then highlights of activities obviously

328

00:13:51,260 --> 00:13:48,480

there's a lot happening in these final

329

00:13:52,760 --> 00:13:51,270

weeks of preparation yeah so it's

330

00:13:55,400 --> 00:13:52,770

definitely a crunch there's a ton going

331

00:13:58,550 --> 00:13:55,410

on between now and launch date May 27th

332

00:14:00,560 --> 00:13:58,560

on the first of those is a series of

333

00:14:04,430 --> 00:14:00,570

media briefings that if you tune into

334

00:14:06,650 --> 00:14:04,440

NASA TV or [nasa.gov /live](http://nasa.gov/live) I'm starting

335

00:14:08,300 --> 00:14:06,660

tomorrow you're gonna see those and

336

00:14:10,370 --> 00:14:08,310

we're gonna have a program overview

337

00:14:12,110 --> 00:14:10,380

mission overview a news conference with

338

00:14:14,690 --> 00:14:12,120

crew Bob and Doug so you'll hear from

339

00:14:17,030 --> 00:14:14,700

them directly and very soon we're going

340

00:14:18,920 --> 00:14:17,040

to be putting out a schedule of all of

341

00:14:21,350 --> 00:14:18,930

the NASA TV events and events

342

00:14:23,450 --> 00:14:21,360

surrounding the crew from from now until

343

00:14:25,460 --> 00:14:23,460

launch that's going to include the crew

344

00:14:29,180 --> 00:14:25,470

arriving at Kennedy Space Center we'll

345

00:14:32,540 --> 00:14:29,190

have that on NASA TV all of the final

346

00:14:35,600 --> 00:14:32,550

reviews program reviews and approvals in

347

00:14:37,730 --> 00:14:35,610

order to get to launch and so we'll have

348

00:14:40,130 --> 00:14:37,740

that on NASA TV just as we have in the

349

00:14:42,350 --> 00:14:40,140

past and then obviously launch day will

350

00:14:44,030 --> 00:14:42,360

be going on the air off several hours

351
00:14:46,250 --> 00:14:44,040
before launch so we can take viewers

352
00:14:49,010 --> 00:14:46,260
through things every step of the way

353
00:14:51,890 --> 00:14:49,020
from suit up to the drive out to the

354
00:14:53,180 --> 00:14:51,900
launch pad board and crew dragon and

355
00:14:55,100 --> 00:14:53,190
then all the way till they get to the

356
00:14:57,680 --> 00:14:55,110
International Space Station and further

357
00:15:00,470 --> 00:14:57,690
at the duration of their mission awesome

358
00:15:02,270 --> 00:15:00,480
fantastic cannot wait like you said so

359
00:15:04,280 --> 00:15:02,280
much going on feel free to follow us or

360
00:15:06,110 --> 00:15:04,290
please follow us on social subscribe to

361
00:15:07,400 --> 00:15:06,120
this YouTube channel you'll be able to

362
00:15:10,460 --> 00:15:07,410
keep up with everything that's happening

363
00:15:12,440 --> 00:15:10,470

and also last last comment fun facts

364

00:15:17,600 --> 00:15:12,450

marine shares a hometown with doug is

365

00:15:19,130 --> 00:15:17,610

that correct yes so Doug it was born in

366

00:15:20,990 --> 00:15:19,140

Endicott New York that's my home

367

00:15:22,759 --> 00:15:21,000

town he considers apple akin his

368

00:15:25,850 --> 00:15:22,769

hometown is just across the river so

369

00:15:28,579 --> 00:15:25,860

very familiar with Doug's hometown and

370

00:15:31,069 --> 00:15:28,589

so I've got a lot of hometown pride for

371

00:15:32,389 --> 00:15:31,079

done in particular but super excited for

372

00:15:34,970 --> 00:15:32,399

both of our crew members and just

373

00:15:36,829 --> 00:15:34,980

honored to be a small part of what has

374

00:15:38,960 --> 00:15:36,839

been a massive effort by still many

375

00:15:39,710 --> 00:15:38,970

people from NASA and Facebook yeah

376

00:15:41,960 --> 00:15:39,720

awesome

377

00:15:43,519 --> 00:15:41,970

Murray thank you very much Jen and you

378

00:15:46,130 --> 00:15:43,529

as well appreciate you both providing

379

00:15:47,600 --> 00:15:46,140

insight and lots of nuggets of

380

00:15:50,360 --> 00:15:47,610

information of things to go work on and

381

00:15:52,639 --> 00:15:50,370

find out about for the future thanks

382

00:15:55,819 --> 00:15:52,649

Joshua absolutely thanks for having me

383

00:15:58,190 --> 00:15:55,829

all right so before we send you off for

384

00:16:00,710 --> 00:15:58,200

the rest of today want to highlight a

385

00:16:02,780 --> 00:16:00,720

couple things for you in addition to all

386

00:16:05,150 --> 00:16:02,790

of the amazing things happening that

387

00:16:07,030 --> 00:16:05,160

we're covering on our program also

388

00:16:10,310 --> 00:16:07,040

wanted to highlight for you a couple

389

00:16:11,840 --> 00:16:10,320

social media happenings this week so

390

00:16:13,880 --> 00:16:11,850

very important the Mars 2020

391

00:16:15,230 --> 00:16:13,890

perseverance rover which we've

392

00:16:16,930 --> 00:16:15,240

highlighted a lot on this program over

393

00:16:19,670 --> 00:16:16,940

the course of the past few weeks has a

394

00:16:22,009 --> 00:16:19,680

helicopter on board which we will be

395

00:16:24,050 --> 00:16:22,019

having a show to talk about next week

396

00:16:26,829 --> 00:16:24,060

Masek this is the plan which we're

397

00:16:29,840 --> 00:16:26,839

pumped for it got a name yesterday

398

00:16:33,110 --> 00:16:29,850

ingenuity I believe is its new name so

399

00:16:35,090 --> 00:16:33,120

excited for that again named by a

400

00:16:36,650 --> 00:16:35,100

student which is one of the things I

401
00:16:39,530 --> 00:16:36,660
love we're really bringing in students

402
00:16:41,060 --> 00:16:39,540
to get involved with our work and naming

403
00:16:43,880 --> 00:16:41,070
things is really fun so perseverance and

404
00:16:46,819 --> 00:16:43,890
ingenuity flying as a very dynamic duo

405
00:16:49,370 --> 00:16:46,829
to the Red Planet here July 17th I

406
00:16:50,630 --> 00:16:49,380
believe is our targeted liftoff and I

407
00:16:52,610 --> 00:16:50,640
want to clock today that's in about ten

408
00:16:54,949 --> 00:16:52,620
minutes we're gonna have a massive

409
00:16:57,019 --> 00:16:54,959
announcement this is the human Lander

410
00:16:59,060 --> 00:16:57,029
system so for the Artemis program we are

411
00:17:01,910 --> 00:16:59,070
actually gonna be announcing who will be

412
00:17:03,620 --> 00:17:01,920
working on the landing system some some

413
00:17:04,850 --> 00:17:03,630

of I don't know the specifics it's

414

00:17:06,439 --> 00:17:04,860

pretty hush-hush until it comes up

415

00:17:07,850 --> 00:17:06,449

publicly all I know is that there's a

416

00:17:10,760 --> 00:17:07,860

big announcement I want to clock so tune

417

00:17:13,220 --> 00:17:10,770

in enjoy that and that's gonna do it for

418

00:17:15,409 --> 00:17:13,230

me here at the Kennedy Space Center sort