

1

00:00:00,000 --> 00:00:15,000

So what do we got here? These are viewing tapes from the editors.

2

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

Well, this is all the stuff that doesn't make it into the show, and there's some solid gold on these tapes.

3

00:00:21,000 --> 00:00:23,000

You mean like all the screw-ups and things?

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00:00:23,000 --> 00:00:29,000

No, the screw-ups make it into the show. It's little experiments that didn't get cut in because of time constraints or other factors

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00:00:29,000 --> 00:00:34,000

that really support the myths that we did and some really good stuff here.

6

00:00:34,000 --> 00:00:40,000

That's a no-take.

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00:00:40,000 --> 00:00:46,000

We keep trying to up the bar on this stupid step we're doing.

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00:00:46,000 --> 00:00:54,000

In this special Outtakes episode, fighting the clock, the scenes we wanted to show you.

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00:00:54,000 --> 00:00:57,000

I think we cured my chronic back problem.

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00:00:57,000 --> 00:01:00,000

But couldn't fit into the original shows.

11

00:01:00,000 --> 00:01:04,000

A soul about man's inhumanity to man.

12

00:01:04,000 --> 00:01:14,000

At last, we're getting them to air so we can finally get rid of those tapes.

13

00:01:14,000 --> 00:01:18,000

Who are the Mythbusters? Adam Savage.

14

00:01:18,000 --> 00:01:20,000

I reject your reality and substitute my own.

15

00:01:20,000 --> 00:01:22,000

And Jamie Heineman.

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00:01:22,000 --> 00:01:24,000

I don't like it in here. It's private.

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00:01:24,000 --> 00:01:29,000

Between them, more than 30 years special effects experience.

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00:01:29,000 --> 00:01:31,000

That was intense.

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00:01:31,000 --> 00:01:37,000

They don't just tell the Myths, they put them to the test.

20

00:01:45,000 --> 00:01:47,000

Okay, well what's first up?

21

00:01:47,000 --> 00:01:52,000

Well, this is a classic case of a story under which we have no control over the circumstances.

22

00:01:52,000 --> 00:01:55,000

We were shooting in a protected wildlife sanctuary.

23

00:01:55,000 --> 00:02:00,000

We had experts on hand to make sure we did not mess with the local flora and fauna.

24

00:02:00,000 --> 00:02:03,000

And one of the local fauna came and messed with us.

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00:02:03,000 --> 00:02:06,000

So you'd be referring to the ping pong rescue?

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00:02:06,000 --> 00:02:08,000

Without a doubt.

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00:02:08,000 --> 00:02:14,000

In Ping Pong Rescue, the challenge was to raise a boat from the bottom of Monterey Bay

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00:02:14,000 --> 00:02:16,000

using thousands of ping pong balls.

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00:02:16,000 --> 00:02:18,000

Challenge enough.

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00:02:18,000 --> 00:02:23,000

But there was a problem they didn't expect and you didn't see.

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00:02:26,000 --> 00:02:32,000

We're actually about to potentially release like 60,000 ping pong balls into this marine sanctuary.

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00:02:32,000 --> 00:02:36,000

And what would be like a worst case scenario with those ping pong balls, do you think?

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00:02:36,000 --> 00:02:41,000

Well, we would want to make sure that no marine animals swallowed them, for example.

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00:02:41,000 --> 00:02:46,000

What are the penalties for interfering with or actually harming a marine animal?

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00:02:46,000 --> 00:02:48,000

The penalties are actually very severe.

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00:02:48,000 --> 00:02:52,000

So we'd have to choose maybe a member of our crew who would take the blame?

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00:02:52,000 --> 00:02:54,000

I don't know, that would be up to you.

38

00:02:54,000 --> 00:03:01,000

To contain the balls and protect wildlife, they ran a boom around the site, then got to work.

39

00:03:07,000 --> 00:03:10,000

But they didn't count on this guy.

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00:03:11,000 --> 00:03:22,000

Turns out sea otters have absolutely no respect for booms, or myth busting, or other people's property.

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00:03:26,000 --> 00:03:32,000

Now either he thought the ball was food, or he was really enjoying freaking out the crew.

42

00:03:34,000 --> 00:03:37,000

Oh, he's got the ball!

43

00:03:41,000 --> 00:03:43,000

Oh man, that's really cute.

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00:03:43,000 --> 00:03:46,000

Cute, huh? Tell that to the judge.

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00:03:46,000 --> 00:03:52,000

In Monterrey Bay, ping pong ball plus otter equals jail time for at least some member of the crew.

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00:03:52,000 --> 00:03:54,000

I think we'd have to draw straws to figure out who.

47

00:03:54,000 --> 00:03:58,000

Jokes aside, no one wanted that otter harm.

48

00:03:58,000 --> 00:04:03,000

The ball was too big for him to swallow, but they needed to get it off him.

49

00:04:03,000 --> 00:04:05,000

Support crew to the rescue.

50

00:04:05,000 --> 00:04:07,000

Oh, he's playing.

51

00:04:07,000 --> 00:04:12,000

Fortunately for everyone, the thief made good his escape, leaving his booty behind.

52

00:04:14,000 --> 00:04:20,000

Those otters were incredibly smart. Not only did they find the balls on the surface, but they found the source of the balls.

53

00:04:20,000 --> 00:04:22,000

We couldn't get them to stay away from it.

54

00:04:22,000 --> 00:04:27,000

I'm glad that we actually did not harm any of them, because there's only 2,500 of them left.

55

00:04:27,000 --> 00:04:32,000

Super endangered species. And we got that otter to sign a release and give us permission to show it.

56

00:04:32,000 --> 00:04:35,000

Now that we've got permission, can we destroy the tape?

57

00:04:35,000 --> 00:04:37,000

Yeah, here you go.

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00:04:39,000 --> 00:04:44,000

Well, next up is one of the simplest and yet most controversial stories that we've ever done,

59

00:04:44,000 --> 00:04:48,000

and we get to show the experiment that proves we got it right.

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00:04:50,000 --> 00:04:56,000

In Plywood Builder, the mythbusters tested the story of the construction worker who was blown off a building.

61

00:04:56,000 --> 00:05:03,000

He saved himself by holding onto a sheet of plywood and flying himself back into the floor below.

62

00:05:04,000 --> 00:05:09,000

The vital component to this story was control, as he was lifted off the building.

63

00:05:09,000 --> 00:05:14,000

Could he possibly hold onto that board and guide the descent?

64

00:05:14,000 --> 00:05:20,000

To test it, they set up a zipline, and in the show, you saw Adam take that ride.

65

00:05:30,000 --> 00:05:32,000

I farted on you!

66

00:05:33,000 --> 00:05:41,000

You never saw Jamie struggle to jump off that building, or heard how windy it in fact was, like the myth.

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00:05:41,000 --> 00:05:45,000

The more fun that this job gets, the more unfun it gets at times.

68

00:05:45,000 --> 00:05:51,000

We keep trying to up the bar on this stupid stuff we're doing, and hopefully it won't get killed in the process.

69

00:05:52,000 --> 00:05:54,000

We've got the screen, Jamie.

70

00:05:54,000 --> 00:05:55,000

Okay.

71

00:05:55,000 --> 00:05:57,000

And ready to go. In...

72

00:05:57,000 --> 00:05:58,000

5...

73

00:05:58,000 --> 00:05:59,000

4...

74

00:05:59,000 --> 00:06:01,000

3...

75

00:06:01,000 --> 00:06:02,000

2...

76

00:06:03,000 --> 00:06:04,000

1...

77

00:06:05,000 --> 00:06:06,000

Here we go.

78

00:06:22,000 --> 00:06:28,000

Jamie's a strong guy, but the wind resistance on that plywood sheet was more than he could handle.

79

00:06:29,000 --> 00:06:31,000

Well, I don't care what anybody says.

80

00:06:31,000 --> 00:06:35,000

You know, they clocked me going down that zipline at about 15 miles an hour,

81

00:06:35,000 --> 00:06:38,000

and I could barely hold onto the plywood, much less control it.

82

00:06:38,000 --> 00:06:44,000

Yeah, I mean, buildings can definitely generate huge updrafts, over 100 miles an hour in some cases,

83

00:06:44,000 --> 00:06:50,000

but that force would rip the plywood right out of your hands, and that's what we were trying to prove with the zipline.

84

00:06:50,000 --> 00:06:56,000

And do you remember that piece of plywood was whipping around so much that Christine just flat out refused to do the drop?

85

00:06:58,000 --> 00:06:59,000

Well, that ran sick.

86

00:07:00,000 --> 00:07:01,000

I'm...

87

00:07:01,000 --> 00:07:03,000

It's arriving at this moment, yes.

88

00:07:04,000 --> 00:07:10,000

Christine intended to be the third down the line, but what with the wind and that big board?

89

00:07:11,000 --> 00:07:13,000

You say when you're comfortable.

90

00:07:13,000 --> 00:07:15,000

I'm not comfortable, but I'm gonna go.

91

00:07:15,000 --> 00:07:16,000

Do as soon as you can, Christine.

92

00:07:16,000 --> 00:07:19,000

Okay, I'm gonna ease it down so it takes it to slack, okay?

93

00:07:19,000 --> 00:07:20,000

Okay.

94

00:07:21,000 --> 00:07:23,000

Okay, standing by everybody.

95

00:07:23,000 --> 00:07:25,000

What's your call?

96

00:07:25,000 --> 00:07:26,000

I can't do it.

97

00:07:27,000 --> 00:07:28,000

It's okay.

98

00:07:28,000 --> 00:07:29,000

You call it.

99

00:07:29,000 --> 00:07:30,000

It's okay.

100

00:07:30,000 --> 00:07:31,000

It's okay.

101

00:07:33,000 --> 00:07:34,000

I'm sorry.

102

00:07:34,000 --> 00:07:36,000

I'm gonna go up and talk to Christine.

103

00:07:36,000 --> 00:07:38,000

Adam, that's not the way she's going to do it.

104

00:07:38,000 --> 00:07:44,000

Which raises the question, is Adam Savage really the guy you want around to get you over your vertigo?

105

00:07:44,000 --> 00:07:49,000

There's nothing about it that's not scary, but out of doubt, there's nothing about it that isn't scary.

106

00:07:49,000 --> 00:07:51,000

Soothing words indeed.

107

00:07:51,000 --> 00:07:54,000

Strangely, they don't seem to have worked.

108

00:07:56,000 --> 00:08:01,000

I want to so much.

109

00:08:01,000 --> 00:08:04,000

I really want to do it for you.

110

00:08:04,000 --> 00:08:05,000

I can't.

111

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

Time to call in backup.

112

00:08:13,000 --> 00:08:14,000

All right, give it a call.

113

00:08:14,000 --> 00:08:15,000

Say I just can't do it.

114

00:08:16,000 --> 00:08:17,000

I'm really sorry.

115

00:08:17,000 --> 00:08:18,000

I can't.

116

00:08:18,000 --> 00:08:19,000

I can't do it.

117

00:08:20,000 --> 00:08:22,000

Christine, you know I'm afraid of heights, don't you?

118

00:08:23,000 --> 00:08:25,000

Jamie is wondering like a girl.

119

00:08:27,000 --> 00:08:30,000

So Christine, you're not gonna do it for the team, are you?

120

00:08:36,000 --> 00:08:40,000

Finally, they call in the big guns, the producer.

121

00:08:40,000 --> 00:08:43,000

He carries quite a bit of weight around here.

122

00:08:44,000 --> 00:08:45,000

This part is still there.

123

00:08:45,000 --> 00:08:47,000

Get it over with.

124

00:08:50,000 --> 00:08:52,000

I don't think you can hit me enough.

125

00:08:52,000 --> 00:08:54,000

Time to go see Adam.

126

00:08:56,000 --> 00:08:59,000

Christine, these are for you.

127

00:09:04,000 --> 00:09:05,000

So what's next?

128

00:09:10,000 --> 00:09:14,000

You know, it really bugs me that we go to all this physical effort.

129

00:09:14,000 --> 00:09:16,000

You know, we put our bodies on the line on these shows,

130

00:09:16,000 --> 00:09:19,000

and then there's only a little tiny bit of it that gets in.

131

00:09:19,000 --> 00:09:24,000

What, do you mean like Scotty and Tori's hours of rack time for Chinese water torture?

132

00:09:27,000 --> 00:09:33,000

You saw two attempts to put water torture to the test.

133

00:09:33,000 --> 00:09:37,000

Adam spent the day in a comfy chair being dripped on

134

00:09:37,000 --> 00:09:40,000

until his bladder could take no more.

135

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

Oh, oh, oh my God!

136

00:09:49,000 --> 00:09:53,000

But Carrie was strapped down and her head restrained.

137

00:09:53,000 --> 00:09:55,000

It eventually got the better of her.

138

00:09:55,000 --> 00:09:58,000

I actually don't want to do this test right now.

139

00:09:58,000 --> 00:09:59,000

Alright, let's get her out.

140

00:10:01,000 --> 00:10:03,000

It wasn't included in the program,

141

00:10:03,000 --> 00:10:06,000

but the build team continued their investigations

142

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

with Scotty next on the rack.

143

00:10:08,000 --> 00:10:11,000

We're here to make you feel better.

144

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

That's pretty tight.

145

00:10:13,000 --> 00:10:14,000

Is it?

146

00:10:14,000 --> 00:10:16,000

They were free to stop anytime.

147

00:10:16,000 --> 00:10:20,000

Scotty only had her head secured and did fine for an hour

148

00:10:20,000 --> 00:10:23,000

until someone added ice to the water.

149

00:10:24,000 --> 00:10:27,000

I feel like my head is shrinking into my brain.

150

00:10:28,000 --> 00:10:29,000

Alright, let's stop it.

151

00:10:29,000 --> 00:10:30,000

Let's get her out of this.

152

00:10:36,000 --> 00:10:38,000

Which left Tori?

153

00:10:38,000 --> 00:10:43,000

He had the double whammy, restraints and ice cold water.

154

00:10:44,000 --> 00:10:46,000

It couldn't get any worse, right?

155

00:10:51,000 --> 00:10:55,000

I think we've cured my chronic back problem.

156

00:10:56,000 --> 00:11:00,000

They cured his back, but broke his head with freezing water,

157

00:11:00,000 --> 00:11:02,000

not drops a stream.

158

00:11:02,000 --> 00:11:04,000

That would suck, as far as I'm concerned.

159

00:11:04,000 --> 00:11:07,000

It does suck.

160

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

I can go all night long.

161

00:11:11,000 --> 00:11:12,000

Tori, I'm going to go,

162

00:11:12,000 --> 00:11:15,000

but I'll give you 10 bucks if you make it a full 90 minutes.

163

00:11:15,000 --> 00:11:16,000

You're on.

164

00:11:16,000 --> 00:11:17,000

Just shake on it.

165

00:11:17,000 --> 00:11:18,000

Okay, man.

166

00:11:18,000 --> 00:11:22,000

Okay, so another 10 bucks by another 90 minutes?

167

00:11:22,000 --> 00:11:24,000

On top of the 90 minutes?

168

00:11:24,000 --> 00:11:25,000

Double it.

169

00:11:25,000 --> 00:11:26,000

You're on.

170

00:11:26,000 --> 00:11:27,000

Three hours.

171

00:11:27,000 --> 00:11:29,000

Alright, shake on it.

172

00:11:33,000 --> 00:11:35,000

I don't think so.

173

00:11:36,000 --> 00:11:38,000

It seemed like a good bet at the time,

174

00:11:38,000 --> 00:11:42,000

but as the minutes tick by, just like Carrie and Scotty,

175

00:11:42,000 --> 00:11:45,000

he'd find the going got harder and harder.

176

00:11:49,000 --> 00:11:53,000

I'm reaching the edge.

177

00:11:53,000 --> 00:11:55,000

I'm freezing right now.

178

00:11:55,000 --> 00:11:58,000

My shoulder's killing me, so I'll be losing \$15.

179

00:11:58,000 --> 00:12:00,000

Big deal.

180

00:12:00,000 --> 00:12:01,000

I'm miserable right now.

181

00:12:01,000 --> 00:12:03,000

I'm so miserable I can't even tell you.

182

00:12:04,000 --> 00:12:06,000

I'm done.

183

00:12:08,000 --> 00:12:10,000

The build team had gone to amazing lengths

184

00:12:10,000 --> 00:12:13,000

to discover what seemed self-evident.

185

00:12:13,000 --> 00:12:16,000

Torture is just no picnic.

186

00:12:16,000 --> 00:12:18,000

That is the worst.

187

00:12:21,000 --> 00:12:24,000

Have you got that one with both you and Alice,

188

00:12:24,000 --> 00:12:27,000

the researcher doing the coffin test on Buried Alive?

189

00:12:29,000 --> 00:12:30,000

That one.

190

00:12:30,000 --> 00:12:32,000

There you go.

191

00:12:36,000 --> 00:12:40,000

You saw Jamie's contribution to the Buried Alive myth.

192

00:12:40,000 --> 00:12:42,000

Farewell, cruel world.

193

00:12:42,000 --> 00:12:46,000

He was sealed in the coffin and a ton of dirt dumped on top

194

00:12:46,000 --> 00:12:49,000

till the coffin started to cave in.

195

00:12:49,000 --> 00:12:51,000

This thing's really starting to creak

196

00:12:51,000 --> 00:12:55,000

and it's feeling like it's changing its shape.

197

00:12:56,000 --> 00:12:59,000

Adam's turn came much earlier in the process.

198

00:13:03,000 --> 00:13:07,000

Why did I feel a sigh of relief when he's locked up inside there?

199

00:13:08,000 --> 00:13:11,000

They were checking the effect of confinement on the body.

200

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

Temperature's 84.6 holding.

201

00:13:13,000 --> 00:13:17,000

Monitoring vital signs like heart rate and oxygen levels.

202

00:13:17,000 --> 00:13:19,000

So Adam, how are you feeling?

203

00:13:19,000 --> 00:13:20,000

I'm full.

204

00:13:20,000 --> 00:13:22,000

You feeling lightheaded at all?

205

00:13:22,000 --> 00:13:24,000

I'm sweaty.

206

00:13:24,000 --> 00:13:26,000

I don't have anything like a headache.

207

00:13:27,000 --> 00:13:30,000

And I really, like I'm not having like labored breathing,

208

00:13:30,000 --> 00:13:32,000

the air is thick and humid.

209

00:13:33,000 --> 00:13:36,000

Of particular concern was how long it would take

210

00:13:36,000 --> 00:13:39,000

carbon dioxide levels in the sealed coffin

211

00:13:39,000 --> 00:13:41,000

to become dangerously high.

212

00:13:41,000 --> 00:13:44,000

Adam, we're actually going to prepare to pull you out right now.

213

00:13:44,000 --> 00:13:47,000

The carbon dioxide level is shooting up pretty quickly

214

00:13:47,000 --> 00:13:49,000

and the percentage of oxygen is dropping to the point.

215

00:13:49,000 --> 00:13:51,000

By all means.

216

00:13:52,000 --> 00:13:55,000

Adam lasted 47 minutes.

217

00:13:58,000 --> 00:13:59,000

There you go.

218

00:13:59,000 --> 00:14:01,000

Well, that's bright.

219

00:14:01,000 --> 00:14:04,000

I really felt like it could have gone another 20 minutes.

220

00:14:04,000 --> 00:14:06,000

In fact, based on his readings,

221

00:14:06,000 --> 00:14:09,000

in 20 minutes, Adam would have been in serious trouble,

222

00:14:09,000 --> 00:14:13,000

probably passing out from the buildup of CO₂.

223

00:14:13,000 --> 00:14:14,000

Fine.

224

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

Producer Alice took a turn too

225

00:14:16,000 --> 00:14:19,000

and her similar result confirmed 45 minutes

226

00:14:19,000 --> 00:14:22,000

is about as long as you can lie in a coffin.

227

00:14:24,000 --> 00:14:26,000

I'll tell you, my recommendation would be

228

00:14:26,000 --> 00:14:29,000

don't drink five of these before you go in there.

229

00:14:32,000 --> 00:14:34,000

In the cement truck myth,

230

00:14:34,000 --> 00:14:37,000

the man tested the idea of blowing dried cement

231

00:14:37,000 --> 00:14:39,000

out of a barrel with explosives.

232

00:14:39,000 --> 00:14:41,000

But in the interests of science,

233

00:14:41,000 --> 00:14:44,000

someone had to see how long it takes

234

00:14:44,000 --> 00:14:46,000

the conventional hand-chipping way

235

00:14:46,000 --> 00:14:48,000

that someone was toying.

236

00:14:48,000 --> 00:14:51,000

So we've nominated you to prove

237

00:14:51,000 --> 00:14:54,000

that it actually is possible to remove concrete

238

00:14:54,000 --> 00:14:57,000

from a truck by manual labor.

239

00:14:57,000 --> 00:14:58,000

What?

240

00:14:59,000 --> 00:15:02,000

So did I miss a meeting when this decision was made?

241

00:15:02,000 --> 00:15:04,000

Yeah, you missed that meeting.

242

00:15:04,000 --> 00:15:05,000

But that's okay.

243

00:15:05,000 --> 00:15:07,000

You know, we're all really proud of you

244

00:15:07,000 --> 00:15:08,000

for taking one for the team.

245

00:15:08,000 --> 00:15:09,000

See you later, guy.

246

00:15:10,000 --> 00:15:12,000

Hey, thanks.

247

00:15:16,000 --> 00:15:17,000

Nice.

248

00:15:18,000 --> 00:15:19,000

I know.

249

00:15:19,000 --> 00:15:20,000

I know what you're thinking.

250

00:15:20,000 --> 00:15:22,000

Why does he get all the best jobs?

251

00:15:22,000 --> 00:15:25,000

I must have done something to put them off.

252

00:15:25,000 --> 00:15:27,000

I'm trying to remember what it was.

253

00:15:27,000 --> 00:15:32,000

Holy crap.

254

00:15:32,000 --> 00:15:34,000

Holy crap.

255

00:15:34,000 --> 00:15:36,000

Holy crap.

256

00:15:37,000 --> 00:15:39,000

They don't want me to knock all this out, do they?

257

00:15:44,000 --> 00:15:46,000

It's confined in there.

258

00:15:47,000 --> 00:15:49,000

It's this big fat tin can.

259

00:15:51,000 --> 00:15:54,000

It's the noisiest, most unpleasant environment.

260

00:15:55,000 --> 00:15:58,000

I think maybe fibreglassing a house from the inside

261

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

might be worse than this, but only by a little bit.

262

00:16:10,000 --> 00:16:13,000

I feel sorry for anybody who would have to do this

263

00:16:13,000 --> 00:16:15,000

for a real job.

264

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

That's it.

265

00:16:16,000 --> 00:16:18,000

That's about an hour's work right there.

266

00:16:18,000 --> 00:16:20,000

So how long do you think that would take, man?

267

00:16:20,000 --> 00:16:21,000

Dude, I have no idea.

268

00:16:21,000 --> 00:16:23,000

I mean, this would probably take at least a week,

269

00:16:23,000 --> 00:16:25,000

maybe a month.

270

00:16:25,000 --> 00:16:27,000

I mean, it's just a horrible job,

271

00:16:27,000 --> 00:16:30,000

and there's no way one person could actually do this.

272

00:16:30,000 --> 00:16:33,000

There's got to be a better way to get some men out of these trucks.

273

00:16:33,000 --> 00:16:35,000

Oh, I think we have a better way.

274

00:16:47,000 --> 00:16:49,000

That was really hard for Tori.

275

00:16:49,000 --> 00:16:52,000

I'm having to spend an hour inside the barrel of that cement trunk

276

00:16:52,000 --> 00:16:54,000

fruitlessly trying to clean it.

277

00:16:54,000 --> 00:16:55,000

Can I do this one?

278

00:16:55,000 --> 00:16:57,000

Sure, be my guest.

279

00:17:05,000 --> 00:17:07,000

So what's next?

280

00:17:07,000 --> 00:17:08,000

Black powder.

281

00:17:08,000 --> 00:17:11,000

You know, I've been saving this one for the most frustrating kind of outtake

282

00:17:11,000 --> 00:17:14,000

when sometimes whole segments get edited out.

283

00:17:14,000 --> 00:17:17,000

Oh, like a whole step is removed from the process

284

00:17:17,000 --> 00:17:19,000

and the logic goes with it.

285

00:17:19,000 --> 00:17:21,000

And then I get emails saying,

286

00:17:21,000 --> 00:17:23,000

we missed the boat?

287

00:17:23,000 --> 00:17:25,000

Those are the ones.

288

00:17:28,000 --> 00:17:30,000

In finding a needle in a haystack,

289

00:17:30,000 --> 00:17:35,000

you saw the machines Jamie and Adam finally put to work in the challenge.

290

00:17:37,000 --> 00:17:41,000

What we didn't show you was Adam's first idea in action.

291

00:17:41,000 --> 00:17:43,000

What does that mean?

292

00:17:47,000 --> 00:17:49,000

He wanted to use a metal detector,

293

00:17:49,000 --> 00:17:52,000

but given the huge volume of hay,

294

00:17:52,000 --> 00:17:55,000

needed to narrow down the search.

295

00:17:55,000 --> 00:17:57,000

I'm going to do some sifting with this stuff.

296

00:17:57,000 --> 00:18:01,000

See if I can separate the needle from the chaff as it were.

297

00:18:04,000 --> 00:18:08,000

So while the sun shined, Adam made his hay shaker.

298

00:18:08,000 --> 00:18:10,000

And then the sorting started.

299

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

A little bit more, yeah.

300

00:18:16,000 --> 00:18:19,000

And we'll toss in a needle.

301

00:18:25,000 --> 00:18:28,000

But would the needle fall through?

302

00:18:29,000 --> 00:18:31,000

Let's take a look.

303

00:18:31,000 --> 00:18:33,000

There we go.

304

00:18:33,000 --> 00:18:36,000

So, needle fell through on first try.

305

00:18:36,000 --> 00:18:38,000

It seemed Adam was on a winner.

306

00:18:38,000 --> 00:18:40,000

The competition was in the bag.

307

00:18:40,000 --> 00:18:43,000

But then, the light bulb moment.

308

00:18:43,000 --> 00:18:47,000

Now the problem is how would one get a bone needle?

309

00:18:47,000 --> 00:18:49,000

I don't know.

310

00:18:49,000 --> 00:18:51,000

I don't know.

311

00:18:51,000 --> 00:18:53,000

I don't know.

312

00:18:53,000 --> 00:18:55,000

I don't know.

313

00:18:55,000 --> 00:18:57,000

I don't know.

314

00:18:57,000 --> 00:18:59,000

I don't know.

315

00:18:59,000 --> 00:19:02,000

How would one get a bone needle out of here?

316

00:19:02,000 --> 00:19:04,000

A bone needle?

317

00:19:04,000 --> 00:19:05,000

Yeah.

318

00:19:05,000 --> 00:19:07,000

How are you going to find that?

319

00:19:07,000 --> 00:19:09,000

The metal detector was useless.

320

00:19:09,000 --> 00:19:11,000

Things started to get weird after that.

321

00:19:11,000 --> 00:19:16,000

Could we get a trained dog to sniff it out for you?

322

00:19:16,000 --> 00:19:18,000

What we need is a blood.

323

00:19:20,000 --> 00:19:21,000

Hold on.

324

00:19:21,000 --> 00:19:22,000

Shut up.

325

00:19:22,000 --> 00:19:24,000

Swear to God, that's a great idea.

326

00:19:24,000 --> 00:19:26,000

The research department would be thrilled.

327

00:19:26,000 --> 00:19:28,000

How hard could that be to find?

328

00:19:28,000 --> 00:19:30,000

A bone-snipping dog.

329

00:19:30,000 --> 00:19:34,000

I need to find somebody who's got a scent tracing blood hounds

330

00:19:34,000 --> 00:19:36,000

that I can bring in on Monday.

331

00:19:36,000 --> 00:19:39,000

I want to know if a bloodhound can find a bone needle in a haystack.

332

00:19:39,000 --> 00:19:42,000

But you've got to keep the secret from Jamie.

333

00:19:42,000 --> 00:19:43,000

Okay.

334

00:19:43,000 --> 00:19:44,000

Are you ready?

335

00:19:44,000 --> 00:19:45,000

Yeah.

336

00:19:45,000 --> 00:19:47,000

A shaker and a bloodhound.

337

00:19:47,000 --> 00:19:50,000

In truth, it was a planned best kept secret from everyone.

338

00:19:52,000 --> 00:19:53,000

So we did.

339

00:19:53,000 --> 00:19:55,000

Until now.

340

00:19:55,000 --> 00:19:58,000

You know, it's not just steps in the process that are missing.

341

00:19:58,000 --> 00:20:02,000

Sometimes it's entire alternative theories that are left by the wayside.

342

00:20:02,000 --> 00:20:04,000

Oh, you mean like that theory that the second team had

343

00:20:04,000 --> 00:20:09,000

and actually tested that it was radio waves that caused the exploding tattoos

344

00:20:09,000 --> 00:20:11,000

and not magnetic energy?

345

00:20:11,000 --> 00:20:12,000

Exactly.

346

00:20:12,000 --> 00:20:14,000

And it wasn't that we missed the boat.

347

00:20:14,000 --> 00:20:16,000

They just didn't put it in.

348

00:20:16,000 --> 00:20:17,000

Can we blow this up now?

349

00:20:17,000 --> 00:20:18,000

You ready?

350

00:20:18,000 --> 00:20:19,000

Okay.

351

00:20:26,000 --> 00:20:31,000

The myth of exploding tattoos claims that a magnetic resonance imager

352

00:20:31,000 --> 00:20:35,000

or MRI scan can make tattoos blow up

353

00:20:35,000 --> 00:20:39,000

because many inks contain traces of iron oxide.

354

00:20:41,000 --> 00:20:44,000

Ink can certainly react to the magnet.

355

00:20:45,000 --> 00:20:47,000

The build team tried several types of ink

356

00:20:47,000 --> 00:20:49,000

and even made a giddy pig of Scotty.

357

00:20:49,000 --> 00:20:52,000

But there was just no reaction.

358

00:20:52,000 --> 00:20:54,000

No, you're looking all right.

359

00:20:55,000 --> 00:20:58,000

Now, what you didn't see was a side experiment

360

00:20:58,000 --> 00:21:02,000

the build team started down at the local radio station.

361

00:21:04,000 --> 00:21:06,000

We learned that an MRI works in two ways.

362

00:21:06,000 --> 00:21:10,000

It has a magnetic field as well as emitting radio frequency

363

00:21:10,000 --> 00:21:13,000

which is close to what an FM radio band would be.

364

00:21:13,000 --> 00:21:18,000

So we've come to the rooftop of KPFA to test radio waves on iron oxide ink.

365

00:21:18,000 --> 00:21:22,000

So they needed to get their ink up next to the transmitter

366

00:21:22,000 --> 00:21:24,000

and that's where they hit a snag.

367

00:21:24,000 --> 00:21:26,000

We shouldn't climb it. It's not a good idea.

368

00:21:26,000 --> 00:21:27,000

We could get fried.

369

00:21:30,000 --> 00:21:34,000

Plan B, build a smaller transmitter inside the workshop.

370

00:21:34,000 --> 00:21:40,000

Instead of 50,000 watts of power, this one had a much safer 30.

371

00:21:40,000 --> 00:21:44,000

Pirate radio mythbusters was on the air.

372

00:21:44,000 --> 00:21:49,000

Hey, Tori. Unplug it so we can see if we're actually broadcasting silence

373

00:21:49,000 --> 00:21:51,000

over the radio station that should be there.

374

00:21:51,000 --> 00:21:53,000

Why, is it getting blocked right now?

375

00:21:53,000 --> 00:21:55,000

I think so. It's silent.

376

00:21:55,000 --> 00:21:57,000

All right. Unplug it.

377

00:22:00,000 --> 00:22:01,000

Look at that!

378

00:22:04,000 --> 00:22:08,000

Wow, so we are totally covering up radio signal.

379

00:22:08,000 --> 00:22:10,000

There's going to be a lot of mad listeners in this area.

380

00:22:10,000 --> 00:22:12,000

You're like, what happened?

381

00:22:12,000 --> 00:22:14,000

Now, the ink.

382

00:22:14,000 --> 00:22:19,000

First thing we need to do is see what the temperature of our control and our ink is.

383

00:22:19,000 --> 00:22:21,000

Then we're going to stick it next to the radio transmitter,

384

00:22:21,000 --> 00:22:24,000

leave it there for a half hour and see if there's any heat differentiation.

385

00:22:24,000 --> 00:22:26,000

Sounds good.

386

00:22:26,000 --> 00:22:29,000

Both samples were a cool 69 degrees.

387

00:22:29,000 --> 00:22:33,000

Positioned next to the antenna, it was time to start transmitting.

388

00:22:38,000 --> 00:22:40,000

Welcome to Radio Mythbusters.

389

00:22:40,000 --> 00:22:44,000

Half an hour of nonstop hard rockin' news and weather together.

390

00:22:44,000 --> 00:22:46,000

Oh, silence.

391

00:22:50,000 --> 00:22:53,000

30 Minutes Later

392

00:22:55,000 --> 00:22:58,000

30 Minutes Later, was the ink hot?

393

00:22:58,000 --> 00:23:00,000

Was it warmer than the control?

394

00:23:00,000 --> 00:23:03,000

The temperature, right into the iron oxide.

395

00:23:03,000 --> 00:23:05,000

I'm excited to see the results for this.

396

00:23:05,000 --> 00:23:07,000

What do you have?

397

00:23:07,000 --> 00:23:09,000

69.5.

398

00:23:11,000 --> 00:23:13,000

69.3.

399

00:23:13,000 --> 00:23:16,000

Both of these went up less than half a degree.

400

00:23:17,000 --> 00:23:20,000

What do you guys think? Busted?

401

00:23:20,000 --> 00:23:21,000

Busted.

402

00:23:21,000 --> 00:23:22,000

Definitely busted.

403

00:23:22,000 --> 00:23:24,000

Alright, let's wrap this thing up and go home.

404

00:23:29,000 --> 00:23:31,000

You know, occasionally we do go too far.

405

00:23:31,000 --> 00:23:35,000

We're accused of testing every last permutation of a myth.

406

00:23:35,000 --> 00:23:40,000

You mean like the time we tried to leech electricity from the power grid on the free energy story?

407

00:23:40,000 --> 00:23:42,000

Yeah, have you got the tape there?

408

00:23:42,000 --> 00:23:44,000

You probably got like nine tapes from that.

409

00:23:44,000 --> 00:23:45,000

Probably. Let's see what happens.

410

00:23:45,000 --> 00:23:47,000

Let the whole thing go.

411

00:23:47,000 --> 00:23:49,000

Oh, yeah.

412

00:23:49,000 --> 00:23:51,000

Modulator activated.

413

00:23:51,000 --> 00:23:58,000

In free energy, Jamie and Adam tried all manner of weird and wonderfully unsuccessful devices

414

00:23:58,000 --> 00:24:01,000

to generate power out of nothing.

415

00:24:01,000 --> 00:24:04,000

Free energy across the board busted.

416

00:24:04,000 --> 00:24:07,000

Yeah, they're totally and absolutely busted.

417

00:24:07,000 --> 00:24:12,000

We showed you that the laws of physics just wouldn't play ball on this one.

418

00:24:12,000 --> 00:24:19,000

But in one more experiment you didn't see, the guys put the laws of the land to the test.

419

00:24:19,000 --> 00:24:24,000

This myth started with a farmer that apparently had some bailing wire out in his barnyard,

420

00:24:24,000 --> 00:24:28,000

which happened to be in the vicinity of some power lines.

421

00:24:28,000 --> 00:24:31,000

And he somehow noticed that he was getting a little current.

422

00:24:31,000 --> 00:24:36,000

So he refined this and built a large coil, I believe,

423

00:24:36,000 --> 00:24:40,000

and was actually able to run his whole house off of it.

424

00:24:40,000 --> 00:24:45,000

Well, so I'm not sure I would call this free energy, but I might call this free to me energy.

425

00:24:45,000 --> 00:24:47,000

That's about it.

426

00:24:48,000 --> 00:24:54,000

The theory was the electromagnetic field around the power lines would induce a current to flow in their coil.

427

00:24:56,000 --> 00:25:01,000

It seemed worth a try, and Jamie just loves getting down on the farm.

428

00:25:01,000 --> 00:25:07,000

Just a couple of hours away, they found what looked like free energy heaven.

429

00:25:07,000 --> 00:25:14,000

The legal requirements for distance of any structure to a power line is between 10 and 16 feet.

430

00:25:14,000 --> 00:25:20,000

Depending on the type of power line, we are at least 16 feet away, because we do not know what kind of power line this is.

431

00:25:20,000 --> 00:25:26,000

So technically we are fully legal in trying this experiment, and also I should add safe.

432

00:25:26,000 --> 00:25:31,000

What we have here is about 3,000 feet of wire and a coil, and we put it on this frame,

433

00:25:31,000 --> 00:25:36,000

which is made out of PVC plastic, which is not conductive.

434

00:25:36,000 --> 00:25:40,000

And we're going to get it as close as we possibly can safely to a power line.

435

00:25:40,000 --> 00:25:44,000

And we're hoping to be able to induce some current in this coil.

436

00:25:46,000 --> 00:25:54,000

It's a lovely sculpture. It's all about man's inhumanity to man in a pipe and rope sort of way.

437

00:25:59,000 --> 00:26:05,000

With the coil, they would also hoist up a box of meters to measure any electrical current generated,

438

00:26:05,000 --> 00:26:08,000

and a camera to record the momentous event.

439

00:26:08,000 --> 00:26:09,000

Jamie, you ready?

440

00:26:09,000 --> 00:26:10,000

Yeah, let's try it.

441

00:26:10,000 --> 00:26:11,000

Alright.

442

00:26:11,000 --> 00:26:12,000

I hope, fellas.

443

00:26:12,000 --> 00:26:18,000

Worst case scenario is that we've got a camera in our rig up there, and some huge lighting bolt shoots out of the power line into our rig,

444

00:26:18,000 --> 00:26:25,000

down the cable that we're watching it on, and turns everyone into a bunch of electrified German soldiers like the end of Raiders.

445

00:26:26,000 --> 00:26:28,000

Jamie, how fast do you think it would work?

446

00:26:28,000 --> 00:26:31,000

It's going to be instantaneous. We can bring it down any time.

447

00:26:31,000 --> 00:26:34,000

Well, let's bring it down. I'm tired of holding on to this thing.

448

00:26:34,000 --> 00:26:35,000

Okay.

449

00:26:42,000 --> 00:26:45,000

Well, no sparks. No lightning bolts.

450

00:26:45,000 --> 00:26:50,000

It went from 2 millivolts on the ground to 8 millivolts up there.

451

00:26:50,000 --> 00:26:57,000

We're talking that 100 pounds of wire might be able to make your digital watch go.

452

00:26:57,000 --> 00:27:06,000

In order to make this work to power your house, we're talking thousands and thousands of pounds of wire in massive coils lined up under a big power line.

453

00:27:06,000 --> 00:27:11,000

I think we got to call it plausible, but ridiculously impractical.

454

00:27:11,000 --> 00:27:12,000

I agree.

455

00:27:12,000 --> 00:27:15,000

Plausible doesn't make much sense, though.

456

00:27:16,000 --> 00:27:21,000

And it's potentially dangerous, too. So don't try it.

457

00:27:21,000 --> 00:27:22,000

Hey, Adam.

458

00:27:22,000 --> 00:27:25,000

We can see the Alcatraz straight behind us right now.

459

00:27:25,000 --> 00:27:26,000

Wow!

460

00:27:26,000 --> 00:27:28,000

We're coming quite a ways, haven't we?

461

00:27:28,000 --> 00:27:29,000

We have.

462

00:27:29,000 --> 00:27:34,000

Another theory squeezed out of its original show involved the Alcatraz escape.

463

00:27:34,000 --> 00:27:41,000

Jamie and Adam proved the famous escapees could have made it across the San Francisco Bay to the Marin Headland.

464

00:27:44,000 --> 00:27:45,000

We made it!

465

00:27:46,000 --> 00:27:52,000

What you didn't see was testing the idea they also used the tides to throw police off their scent.

466

00:27:53,000 --> 00:27:57,000

Some of the escape equipment washed up at Angel Island.

467

00:27:57,000 --> 00:28:01,000

That's where the FBI believes the criminals headed on their raincoat raft.

468

00:28:02,000 --> 00:28:08,000

But using the model, Jamie and Adam showed if the escapees got out to the water at the Marin Headlands,

469

00:28:08,000 --> 00:28:12,000

their equipment would have washed back to Angel Island on the incoming tide.

470

00:28:14,000 --> 00:28:16,000

Look at that. They're heading right for Angel Island.

471

00:28:17,000 --> 00:28:25,000

You know, what's interesting, Jamie, is that it's on the western shore of Angel Island that they found a lot of the debris.

472

00:28:25,000 --> 00:28:31,000

It could indicate exactly what we're modeling here, which is that they might have released their raft here.

473

00:28:33,000 --> 00:28:37,000

They might have released their equipment and materials here to throw people off the tracks.

474

00:28:37,000 --> 00:28:41,000

These weren't stupid guys. I mean, the main guy was pretty intelligent.

475

00:28:47,000 --> 00:28:53,000

You know, I'm really glad that our theory about debris from the Alcatraz escape finally got to air.

476

00:28:53,000 --> 00:28:57,000

I mean, now the fans can watch it and debate it with all the information that we had.

477

00:29:01,000 --> 00:29:07,000

Well, you know, while we're at it, Adam, we should give our fans a chance to debate our second attempt at the Breakstep Bridge.

478

00:29:07,000 --> 00:29:08,000

What do you think?

479

00:29:11,000 --> 00:29:15,000

Enthusiastic fans might have seen this story on the website.

480

00:29:15,000 --> 00:29:18,000

But we've included it here for everyone else.

481

00:29:19,000 --> 00:29:26,000

In the original Breakstep Bridge experiment, the guys failed to generate a bridge-wrecking wobble in their scale bridge.

482

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

So they decided to try again.

483

00:29:29,000 --> 00:29:32,000

We didn't really show a whole lot on this.

484

00:29:32,000 --> 00:29:35,000

The bridge that we chose was a suspension bridge.

485

00:29:35,000 --> 00:29:42,000

It was, you know, one of the hardest bridges to bust this myth with because it's so flexible and strong by nature.

486

00:29:45,000 --> 00:29:48,000

This time, the bridge was much simpler.

487

00:29:48,000 --> 00:29:51,000

Up here at each end and boards across the middle.

488

00:29:51,000 --> 00:29:56,000

They'd be able to tune the bridge by taking boards out or adding more in.

489

00:29:56,000 --> 00:30:02,000

We want to show that it's not the weight, which is what most people think when a platoon walks over a bridge, that it's the weight.

490

00:30:02,000 --> 00:30:08,000

But we want to show that it is possible to introduce a fatal resonant frequency to a structure.

491

00:30:08,000 --> 00:30:11,000

This time, there were no mechanical soldiers.

492

00:30:11,000 --> 00:30:15,000

Adam would do the job himself, feeling the bridge's rhythm.

493

00:30:17,000 --> 00:30:21,000

In no time, Jamie and Adam had a new bridge to bust.

494

00:30:21,000 --> 00:30:28,000

I know for a fact that it is going to break one way or another, and it's going to break dramatically.

495

00:30:28,000 --> 00:30:30,000

It's going to, like, snap.

496

00:30:30,000 --> 00:30:36,000

It's just a question of whether we can do this in such a way that seems like it's related to some harmonic.

497

00:30:36,000 --> 00:30:39,000

They started with all ten beams in place.

498

00:30:39,000 --> 00:30:44,000

They needed to test if the bridge was strong enough to hold Adam's weight.

499

00:30:44,000 --> 00:30:47,000

Can you sing a little marching song while you're doing it?

500

00:30:47,000 --> 00:30:50,000

Adam, no, but I'm in, no.

501

00:30:52,000 --> 00:30:55,000

Members, this bridge just won't hold.

502

00:30:55,000 --> 00:30:57,000

It held his weight.

503

00:30:57,000 --> 00:30:59,000

So now the test.

504

00:30:59,000 --> 00:31:05,000

Adam needed to gently spring the bridge deck up and down in time with its natural harmonics.

505

00:31:05,000 --> 00:31:10,000

Adam, remember, you can't leave the bridge service, you know? No jumping.

506

00:31:10,000 --> 00:31:11,000

No impact.

507

00:31:11,000 --> 00:31:12,000

No jumping.

508

00:31:12,000 --> 00:31:13,000

Okay.

509

00:31:15,000 --> 00:31:16,000

Yeah?

510

00:31:16,000 --> 00:31:17,000

Yeah.

511

00:31:19,000 --> 00:31:21,000

That's about as much as you can do.

512

00:31:21,000 --> 00:31:27,000

Your heels are leaving the ground, and, you know, it's getting, it's more like you're pounding on it than creating a bounce.

513

00:31:27,000 --> 00:31:30,000

Yeah, no, I agree. I think it's time to detune the bridge.

514

00:31:30,000 --> 00:31:31,000

Okay.

515

00:31:31,000 --> 00:31:32,000

Let's pull out a slot.

516

00:31:32,000 --> 00:31:35,000

That one's going to actually pull pretty easily, I think.

517

00:31:35,000 --> 00:31:40,000

And so began a game of Mythbusters bridge busting Russian roulette.

518

00:31:40,000 --> 00:31:41,000

What'd I say?

519

00:31:41,000 --> 00:31:44,000

Let's pull out one more, and I'll run another march and bounce.

520

00:31:44,000 --> 00:31:47,000

Down to eight planks.

521

00:31:48,000 --> 00:31:51,000

I definitely feel that it moves more.

522

00:31:51,000 --> 00:31:56,000

As far as possible, Adam was trying not to exert any more force on the bridge.

523

00:31:56,000 --> 00:31:59,000

He was just moving in time with its natural bounce.

524

00:31:59,000 --> 00:32:03,000

That's about as much as you can do. You're starting to get off the ground.

525

00:32:03,000 --> 00:32:06,000

Yeah, I feel like I'm really close to the edge.

526

00:32:06,000 --> 00:32:07,000

Let's pull out one.

527

00:32:07,000 --> 00:32:08,000

Okay.

528

00:32:10,000 --> 00:32:11,000

Oh, Jesus.

529

00:32:15,000 --> 00:32:17,000

I think that's enough, Adam.

530

00:32:20,000 --> 00:32:22,000

So, Jamie, shall I go to Goose Step?

531

00:32:22,000 --> 00:32:23,000

All right.

532

00:32:23,000 --> 00:32:24,000

Yeah.

533

00:32:28,000 --> 00:32:30,000

You know, bridges are strong.

534

00:32:34,000 --> 00:32:35,000

You're getting airborne.

535

00:32:35,000 --> 00:32:36,000

I know, I know.

536

00:32:36,000 --> 00:32:37,000

That's it.

537

00:32:38,000 --> 00:32:39,000

That's it.

538

00:32:39,000 --> 00:32:40,000

Jesus.

539

00:32:41,000 --> 00:32:45,000

They were down to five beams, but the bridge was still holding up.

540

00:32:45,000 --> 00:32:47,000

That's it. No more.

541

00:32:47,000 --> 00:32:50,000

Wow. It's a thank-you.

542

00:32:50,000 --> 00:32:51,000

Now it's four.

543

00:32:51,000 --> 00:32:53,000

Good man, walking.

544

00:32:57,000 --> 00:32:59,000

You're getting airborne.

545

00:32:59,000 --> 00:33:01,000

No, can't break it.

546

00:33:02,000 --> 00:33:03,000

Amazing.

547

00:33:05,000 --> 00:33:07,000

Walking out three boards left.

548

00:33:07,000 --> 00:33:10,000

If they hold my weight, I swear to God, it's going to break now.

549

00:33:14,000 --> 00:33:16,000

And so they do.

550

00:33:16,000 --> 00:33:17,000

Ready?

551

00:33:17,000 --> 00:33:18,000

Okay.

552

00:33:21,000 --> 00:33:23,000

Finally broke this damn thing.

553

00:33:23,000 --> 00:33:28,000

Adam, I think this was really successful because the bridge held your weight stationary.

554

00:33:28,000 --> 00:33:29,000

No problem at all.

555

00:33:29,000 --> 00:33:30,000

Yeah.

556

00:33:30,000 --> 00:33:33,000

Once you started to oscillate, it broke.

557

00:33:33,000 --> 00:33:35,000

We tuned it to exactly that point.

558

00:33:35,000 --> 00:33:38,000

If it did it on this bridge, it'll do it on a real bridge.

559

00:33:38,000 --> 00:33:39,000

Yeah.

560

00:33:39,000 --> 00:33:43,000

So can you get me down from here because I can't touch the ground.

561

00:33:43,000 --> 00:33:45,000

You don't want to swing around a little bit.

562

00:33:45,000 --> 00:33:47,000

I'm going to swing around a little bit.

563

00:33:47,000 --> 00:33:50,000

I'm going to swing down from here because I can't touch the ground.

564

00:33:50,000 --> 00:33:52,000

You don't want to swing around a little bit.

565

00:33:57,000 --> 00:34:01,000

You know, with us, a lot of men beg the question, what happens next?

566

00:34:01,000 --> 00:34:05,000

And we always test those if we have the time, but that definitely doesn't always make it in.

567

00:34:05,000 --> 00:34:09,000

I mean, like with the second team when they were doing the balloon lift,

568

00:34:09,000 --> 00:34:12,000

and they proved that they could lift the kid off the ground with party balloons,

569

00:34:12,000 --> 00:34:16,000

but we had to ask, how high would you go?

570

00:34:17,000 --> 00:34:21,000

In carried away, the build team tested that old Hollywood myth

571

00:34:21,000 --> 00:34:26,000

about the kid floating away with a bunch of carnival helium balloons.

572

00:34:26,000 --> 00:34:31,000

It's possible, but you need three and a half thousand balloons to do it.

573

00:34:31,000 --> 00:34:32,000

Look at that!

574

00:34:32,000 --> 00:34:34,000

Oh my God!

575

00:34:34,000 --> 00:34:41,000

To find out how high she might have flown, the mythbusters broke out the trusty vacuum chamber.

576

00:34:41,000 --> 00:34:44,000

I'll say 3000 feet, my guess.

577

00:34:44,000 --> 00:34:46,000

I was going to say 2000.

578

00:34:46,000 --> 00:34:48,000

I'll split the difference. Two-five.

579

00:34:48,000 --> 00:34:49,000

Alright.

580

00:34:49,000 --> 00:34:51,000

At least around 30,000, maybe more.

581

00:34:51,000 --> 00:34:53,000

Alright.

582

00:34:53,000 --> 00:34:55,000

Let's get this thing on.

583

00:34:56,000 --> 00:35:01,000

By pumping out the air inside the chamber, they'll simulate increasing hot.

584

00:35:01,000 --> 00:35:04,000

But getting an airtight seal is tricky.

585

00:35:04,000 --> 00:35:05,000

What's the shop motto?

586

00:35:05,000 --> 00:35:06,000

Carry?

587

00:35:06,000 --> 00:35:08,000

What's the shop motto?

588

00:35:08,000 --> 00:35:10,000

With enough lubrication, we can do anything.

589

00:35:10,000 --> 00:35:12,000

That's right.

590

00:35:17,000 --> 00:35:19,000

Alright.

591

00:35:19,000 --> 00:35:21,000

Oh, do you think it's lifting?

592

00:35:21,000 --> 00:35:22,000

There we go.

593

00:35:22,000 --> 00:35:23,000

Woo!

594

00:35:23,000 --> 00:35:24,000

Alright, that's good.

595

00:35:24,000 --> 00:35:26,000

That's 3000 feet.

596

00:35:26,000 --> 00:35:27,000

4000 feet.

597

00:35:27,000 --> 00:35:28,000

Okay.

598

00:35:28,000 --> 00:35:29,000

Wow.

599

00:35:29,000 --> 00:35:30,000

5000 feet.

600

00:35:30,000 --> 00:35:31,000

Wow, we were way off.

601

00:35:31,000 --> 00:35:32,000

Way off.

602

00:35:32,000 --> 00:35:40,000

Now guys, you know, this two inch thick plex is something that I've sort of eyeballed as being enough.

603

00:35:40,000 --> 00:35:41,000

11,000.

604

00:35:41,000 --> 00:35:48,000

We've learned to be cautious, so I'd recommend as we get up near the higher levels of this thing, we should like stay away from it.

605

00:35:48,000 --> 00:35:49,000

Okay.

606

00:35:49,000 --> 00:35:50,000

13.

607

00:35:50,000 --> 00:35:51,000

13.

608

00:35:51,000 --> 00:35:52,000

Okay.

609

00:35:52,000 --> 00:35:54,000

Look at the size of that balloon.

610

00:35:54,000 --> 00:35:55,000

18.

611

00:35:55,000 --> 00:35:56,000

19.

612

00:35:56,000 --> 00:35:59,000

I think Jamie might be right about this one.

613

00:35:59,000 --> 00:36:00,000

We were way off.

614

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

We should have put money on it, Jamie.

615

00:36:02,000 --> 00:36:04,000

I don't like the bet.

616

00:36:04,000 --> 00:36:05,000

23.

617

00:36:05,000 --> 00:36:07,000

I don't like the bet.

618

00:36:07,000 --> 00:36:08,000

23.

619

00:36:08,000 --> 00:36:10,000

I don't like the bet.

620

00:36:10,000 --> 00:36:11,000

23.

621

00:36:11,000 --> 00:36:12,000

23,000 feet.

622

00:36:12,000 --> 00:36:13,000

Wow.

623

00:36:13,000 --> 00:36:18,000

And it's all green it is.

624

00:36:18,000 --> 00:36:27,000

So the balloon flew to 23,000 feet, but remember it's cold up high, so they tried again with dry ice in the chamber.

625

00:36:27,000 --> 00:36:32,000

I'd say stop it at 25.

626

00:36:32,000 --> 00:36:34,000

Temperature's 14.

627

00:36:34,000 --> 00:36:35,000

14 degrees.

628

00:36:35,000 --> 00:36:36,000

25,000.

629

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

That's pretty cold.

630

00:36:39,000 --> 00:36:42,000

It's going to start declining in altitude.

631

00:36:44,000 --> 00:36:46,000

How long do you guys want to go?

632

00:36:48,000 --> 00:36:50,000

Well, there you go.

633

00:36:51,000 --> 00:36:53,000

25,000 feet.

634

00:36:53,000 --> 00:36:56,000

The mythbusters have their answer.

635

00:36:56,000 --> 00:36:57,000

So cool.

636

00:36:57,000 --> 00:37:01,000

So we're going to have to let our four-year-old know that this is an efficient way to run away from home.

637

00:37:02,000 --> 00:37:09,000

In cola myths, Jamie and Adam put a bunch of beverage myths to the test.

638

00:37:09,000 --> 00:37:17,000

Could it clean up blood, dissolve meat, polish chrome, shine a penny, or eat your teeth?

639

00:37:17,000 --> 00:37:20,000

But there was another myth you didn't see.

640

00:37:20,000 --> 00:37:24,000

I've got the leading brand of bleach toilet bowl cleaner.

641

00:37:24,000 --> 00:37:28,000

I'm going to try and clean the toilet bowl and sink.

642

00:37:29,000 --> 00:37:33,000

Yes, it was the old cola as bathroom cleaner myth.

643

00:37:33,000 --> 00:37:38,000

Could it do this dirty job even better than the conventional cleaner?

644

00:37:38,000 --> 00:37:41,000

Who thought cleaning could be so much fun?

645

00:37:45,000 --> 00:37:49,000

The leading brand of bathroom cleaners seem to do really quite fabulously.

646

00:37:49,000 --> 00:37:52,000

I took about three minutes to clean up this bathroom.

647

00:37:52,000 --> 00:37:56,000

I can only imagine that cola is going to take longer because even if it takes up the grease in the stains,

648

00:37:56,000 --> 00:37:58,000

then you've got to clean up all the cola.

649

00:37:58,000 --> 00:38:04,000

Now while Jamie is sitting over there, I'm going to prepare his bathroom for cleaning.

650

00:38:04,000 --> 00:38:05,000

Come on.

651

00:38:17,000 --> 00:38:20,000

Yes, ladies and gentlemen, that is engine grease.

652

00:38:20,000 --> 00:38:23,000

Jamie will be thrilled.

653

00:38:23,000 --> 00:38:26,000

Okay, I hope I can get it off my hands.

654

00:38:26,000 --> 00:38:28,000

Maybe I should use cola.

655

00:38:28,000 --> 00:38:32,000

All right, let's go get him.

656

00:38:43,000 --> 00:38:44,000

What is that?

657

00:38:44,000 --> 00:38:46,000

Grease.

658

00:38:46,000 --> 00:38:48,000

Have fun.

659

00:38:48,000 --> 00:38:51,000

You've got to ask before doing this to my stuff.

660

00:38:51,000 --> 00:38:58,000

You know, it's like if that doesn't get cleaned off of there by some kind of a detergent, then it's like, I mean...

661

00:38:58,000 --> 00:39:01,000

I just tested the leading brand. It works fine on there.

662

00:39:01,000 --> 00:39:02,000

Okay.

663

00:39:04,000 --> 00:39:07,000

As per the myth, Jamie tried cleaning it off with cola.

664

00:39:07,000 --> 00:39:10,000

The results? Less than stunning.

665

00:39:10,000 --> 00:39:12,000

Adam had a job to do.

666

00:39:12,000 --> 00:39:14,000

Okay, well the cola doesn't do anything to it.

667

00:39:15,000 --> 00:39:21,000

Now you get your ass on the toilet and clean it off then, because I ain't doing it.

668

00:39:22,000 --> 00:39:24,000

No sense of humor.

669

00:39:24,000 --> 00:39:26,000

I hope this works.

670

00:39:29,000 --> 00:39:31,000

Oh, it's just going to take me a little while.

671

00:39:31,000 --> 00:39:32,000

Oh man.

672

00:39:32,000 --> 00:39:34,000

Okay, maybe I was over his outs.

673

00:39:41,000 --> 00:39:43,000

Oh, it's cleaning it just fine.

674

00:39:43,000 --> 00:39:44,000

Yeah, it was fun.

675

00:39:44,000 --> 00:39:45,000

Yes.

676

00:39:45,000 --> 00:39:46,000

See ya.

677

00:39:52,000 --> 00:40:00,000

You know, we get a lot of complaints for not being rigorous on this show, and I think it's because this show makes it look like we only do these experiments once or twice.

678

00:40:00,000 --> 00:40:07,000

When in fact, we run these repetitions as many times as time and money will allow, it's not easy to get a big day to set on MythBusters.

679

00:40:07,000 --> 00:40:10,000

Yeah, how many times did we do that eel skewed and wallet experiment anyway?

680

00:40:10,000 --> 00:40:12,000

God, like 500 times?

681

00:40:16,000 --> 00:40:20,000

In this one, the guys determined an electric eel couldn't wipe a credit card.

682

00:40:20,000 --> 00:40:22,000

Oh, he just bit the card.

683

00:40:22,000 --> 00:40:23,000

Yeah.

684

00:40:23,000 --> 00:40:26,000

And thank goodness I didn't feel anything.

685

00:40:26,000 --> 00:40:31,000

Nor was there enough electromagnetic energy in an eel skin wallet to do it.

686

00:40:31,000 --> 00:40:37,000

So the experiment boiled down to how strong a magnetic field it takes to wipe a credit card.

687

00:40:37,000 --> 00:40:39,000

That one's good.

688

00:40:40,000 --> 00:40:49,000

In the show you saw, the guys tried a bunch of stuff, from wallet clasps to phone speakers and a monster electromagnet.

689

00:40:49,000 --> 00:40:50,000

Fine.

690

00:40:50,000 --> 00:40:52,000

800 Gauss man, are you crazy?

691

00:40:52,000 --> 00:40:59,000

There wasn't enough time to show them all, but they tried that thing literally hundreds of times in various permutations.

692

00:41:00,000 --> 00:41:05,000

Another thing we couldn't show you was Jamie's favorite little toys.

693

00:41:05,000 --> 00:41:11,000

Tiny neodymium rare earth magnets that pound for pound could pull a car off the street.

694

00:41:11,000 --> 00:41:15,000

Watch this, that's a 25 pound weight.

695

00:41:18,000 --> 00:41:20,000

Now those are a couple of strong magnets.

696

00:41:20,000 --> 00:41:22,000

Now, 50 pounds.

697

00:41:22,000 --> 00:41:24,000

Well, okay.

698

00:41:24,000 --> 00:41:25,000

75?

699

00:41:25,000 --> 00:41:27,000

Well, that's the failure point.

700

00:41:27,000 --> 00:41:29,000

About 25 pounds per magnet.

701

00:41:29,000 --> 00:41:30,000

Wow.

702

00:41:30,000 --> 00:41:32,000

Be careful with these, you know.

703

00:41:32,000 --> 00:41:34,000

And here's a neat trick.

704

00:41:34,000 --> 00:41:37,000

I just wanted to point out the, this bit.

705

00:41:37,000 --> 00:41:40,000

You can even do it on your arm, can't you?

706

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

What the?

707

00:41:43,000 --> 00:41:46,000

Okay, so I'm going to take one swipe with this.

708

00:41:46,000 --> 00:41:49,000

So would a magnet that strong wipe a credit card?

709

00:41:49,000 --> 00:41:52,000

Is Jamie's shirt clean and white?

710

00:41:52,000 --> 00:41:53,000

Put it through.

711

00:41:53,000 --> 00:41:55,000

Put this right there so you know where it's at.

712

00:41:58,000 --> 00:42:02,000

Yeah, there's definitely nothing on that card.

713

00:42:02,000 --> 00:42:03,000

Score.

714

00:42:03,000 --> 00:42:04,000

Yeah.

715

00:42:04,000 --> 00:42:10,000

So it turns out as everyone already knew, big magnets will damage your credit cards.

716

00:42:12,000 --> 00:42:17,000

Problem was they couldn't get an accurate measure of the magnets' immense strength,

717

00:42:17,000 --> 00:42:19,000

so it never made it in the show.

718

00:42:24,000 --> 00:42:26,000

There's an awful lot of tapes lined up here, Jamie.

719

00:42:26,000 --> 00:42:31,000

Yeah, well, we're always running into these little mini myths or side stories

720

00:42:31,000 --> 00:42:37,000

that are related to the main story, but they're not big enough to make a whole story or episode out of their own.

721

00:42:37,000 --> 00:42:43,000

And we want to get them in there anyway, so we shoot them, and now we're going to shoot them.

722

00:42:43,000 --> 00:42:46,000

We're going to shoot all of them for real.

723

00:42:46,000 --> 00:42:47,000

Yeah.

724

00:42:47,000 --> 00:42:48,000

Excellent.

725

00:42:48,000 --> 00:42:50,000

Three, two, one.

726

00:42:57,000 --> 00:43:05,000

In Exploding House, the Mythbusters proved that using too many insecticide bug bombs is a really bad idea.

727

00:43:05,000 --> 00:43:13,000

Jamie and Adam were confident it would work, because they'd already done a bunch of testing in a mini blast chamber.

728

00:43:13,000 --> 00:43:15,000

Three, two, one.

729

00:43:17,000 --> 00:43:21,000

And because time was short, you didn't see everything they did with it.

730

00:43:21,000 --> 00:43:27,000

I remember growing up on the farm hearing about barns that went up from, I guess, it was straw getting in the air,

731

00:43:27,000 --> 00:43:32,000

and if it builds up a certain density, it can ignite and explode a building.

732

00:43:32,000 --> 00:43:38,000

The same with sawdust in a place where carpentry is done or flour in a flour mill.

733

00:43:38,000 --> 00:43:43,000

Yeah, I've heard flour mills used to explode all the time, and actually also I've heard that fake smoke,

734

00:43:43,000 --> 00:43:48,000

like a smoke machine can actually, if in a high enough concentration, be ignited.

735

00:43:48,000 --> 00:43:51,000

So I think we should try all those in our scale house before moving on.

736

00:43:51,000 --> 00:43:52,000

Sure.

737

00:43:52,000 --> 00:43:57,000

In the show that went to air, you'll remember they tried several different ignition sources,

738

00:43:57,000 --> 00:44:01,000

and the plan was the same for the flour, smoke machine, and sawdust.

739

00:44:01,000 --> 00:44:03,000

First, the flour.

740

00:44:03,000 --> 00:44:05,000

I'm going to try the faulty wiring.

741

00:44:05,000 --> 00:44:06,000

Number one, here it comes.

742

00:44:06,000 --> 00:44:07,000

Okay.

743

00:44:07,000 --> 00:44:08,000

Oh!

744

00:44:08,000 --> 00:44:09,000

Faulty wiring.

745

00:44:09,000 --> 00:44:10,000

Number two.

746

00:44:10,000 --> 00:44:11,000

Oh!

747

00:44:11,000 --> 00:44:13,000

Smells kind of like baked goods.

748

00:44:13,000 --> 00:44:14,000

Good.

749

00:44:16,000 --> 00:44:19,000

The danger in your local ravioli factory.

750

00:44:20,000 --> 00:44:23,000

I don't know what you have to do to get it to light.

751

00:44:23,000 --> 00:44:25,000

Which is unable to get the density in the air.

752

00:44:28,000 --> 00:44:32,000

So they couldn't replicate a flour mill explosion.

753

00:44:32,000 --> 00:44:34,000

Next up, the smoke machine.

754

00:44:34,000 --> 00:44:36,000

This is mineral oil.

755

00:44:36,000 --> 00:44:39,000

It's super heated and then put under a little bit of pressure.

756

00:44:39,000 --> 00:44:43,000

I don't see any way that it's going to be flammable, but I'm often wrong.

757

00:44:45,000 --> 00:44:49,000

Once again, they tried everything they had to get it to blow.

758

00:44:49,000 --> 00:44:50,000

Okay, so...

759

00:44:50,000 --> 00:44:52,000

Stove igniter, one.

760

00:44:52,000 --> 00:44:53,000

Okay.

761

00:44:56,000 --> 00:44:58,000

Now the open flame.

762

00:45:01,000 --> 00:45:03,000

It ain't lighting with that, it ain't gonna.

763

00:45:03,000 --> 00:45:04,000

No.

764

00:45:04,000 --> 00:45:06,000

A fog machine fog.

765

00:45:06,000 --> 00:45:07,000

It's not flammable.

766

00:45:10,000 --> 00:45:13,000

Sure, but it looks cool.

767

00:45:13,000 --> 00:45:14,000

One test left.

768

00:45:14,000 --> 00:45:15,000

Sawdust.

769

00:45:15,000 --> 00:45:19,000

I've actually been in quite a few circumstances where I was worried about it.

770

00:45:19,000 --> 00:45:23,000

Working in a wood shop where it's just dense with, you know, wood dust or something like that.

771

00:45:23,000 --> 00:45:26,000

I can kind of understand how it worked.

772

00:45:26,000 --> 00:45:28,000

Okay, ready on the igniter?

773

00:45:28,000 --> 00:45:29,000

I'm ready on the igniter.

774

00:45:29,000 --> 00:45:34,000

The theory seems to be that the particles need to be exactly the right distance apart

775

00:45:34,000 --> 00:45:37,000

to allow the flame to spread between them.

776

00:45:39,000 --> 00:45:44,000

You can see some of it igniting, but there we got a little bit of flash.

777

00:45:46,000 --> 00:45:49,000

It just doesn't seem to want to ignite the whole area.

778

00:45:51,000 --> 00:45:53,000

Finally, a little success.

779

00:45:53,000 --> 00:45:54,000

Very little.

780

00:45:54,000 --> 00:45:57,000

Too little to make it into the final show.

781

00:46:00,000 --> 00:46:02,000

Well, it's proof of concept at least, you know.

782

00:46:02,000 --> 00:46:05,000

It wasn't very impressive, but it does burn.

783

00:46:10,000 --> 00:46:18,000

In Elevator of Death, Jamie and Adam spent a long happy afternoon with elevator expert, Les Appel.

784

00:46:18,000 --> 00:46:25,000

He didn't think jumping up would save you if it fell, but the guys had a bunch of other elevator questions they just had to ask.

785

00:46:26,000 --> 00:46:32,000

Les, I've heard a phrase called Eleva Perpetuation that states that if you push the elevator button a lot, it'll make the elevator show up quicker.

786

00:46:32,000 --> 00:46:33,000

Is that true?

787

00:46:34,000 --> 00:46:35,000

Absolute nonsense.

788

00:46:35,000 --> 00:46:37,000

It is however human nature.

789

00:46:38,000 --> 00:46:42,000

Have you ever seen anybody get their head stuck in a door or be decapitated?

790

00:46:43,000 --> 00:46:47,000

No, I don't think it's possible to have a decapitation from elevator door.

791

00:46:48,000 --> 00:46:53,000

What do you think? Is it possible to achieve zero G if you jump up in an elevator while it's descending?

792

00:46:54,000 --> 00:46:55,000

I don't believe so.

793

00:46:56,000 --> 00:47:04,000

You may, I think, create that feeling in your stomach on a fast moving elevator as it starts, but I don't think you can actually achieve zero G in a moving elevator.

794

00:47:04,000 --> 00:47:08,000

Maybe we need Michael Jordan here to do this. He seems to hover in the air.

795

00:47:12,000 --> 00:47:19,000

To test the peeing on the third rail experiment, Jamie and Adam ventured to the Golden Gate Railway Museum.

796

00:47:21,000 --> 00:47:27,000

And while they were there, they tackled the mini-myth that you could derail a train by putting a penny on the track.

797

00:47:28,000 --> 00:47:34,000

Guys have actually graciously allowed us the use of their engine to test this. My guess is they don't think it's going to derail the train.

798

00:47:34,000 --> 00:47:35,000

I would agree.

799

00:47:58,000 --> 00:48:08,000

Oh, yeah. Look at this. Oh my God, they're really hot.

800

00:48:09,000 --> 00:48:11,000

The myth wasn't busted. It was flattened.

801

00:48:14,000 --> 00:48:16,000

Rob the engineer wasn't too surprised.

802

00:48:17,000 --> 00:48:20,000

So Rob, do you think a penny can derail a train?

803

00:48:20,000 --> 00:48:23,000

Absolutely not. Unless it's lodged in the engineer's eye.

804

00:48:23,000 --> 00:48:25,000

That's good.

805

00:48:33,000 --> 00:48:42,000

You know, it just goes to show that you cannot attack any one of the myths that we do without unearthing like 20 other little micro myths, and they're just not all going to make it onto the show.

806

00:48:42,000 --> 00:48:50,000

Yeah, and then there's this constant battle that we have between science and entertainment. It's really an agony to decide what goes in the show.

807

00:48:50,000 --> 00:48:57,000

I'm glad at least that the fans get to see the amount of work we do in support of these myths that doesn't always make it onto the show.

808

00:48:57,000 --> 00:49:00,000

And I see you're already doing the final honors.

809

00:49:01,000 --> 00:49:03,000

I can't keep doing this!

810

00:49:20,000 --> 00:49:25,000

Thanks for watching!

