

1

00:00:00,000 --> 00:00:11,320

On this episode of Mythbusters, there's peril on the high seas as the team tests out cures

2

00:00:11,320 --> 00:00:12,320

for seasickness.

3

00:00:12,320 --> 00:00:17,340

Well, they may work for Barry Mantelow, but they don't work for Kraft for me.

4

00:00:17,340 --> 00:00:22,640

And Adam and Jamie hit the road for a fuel efficiency special.

5

00:00:22,640 --> 00:00:25,000

That's it, I just petered out.

6

00:00:25,520 --> 00:00:31,800

Plus, the Mythbusters star in their very own cartoon, featuring shotgun shenanigans.

7

00:00:31,800 --> 00:00:35,800

It's time we're going for total annihilation.

8

00:00:35,800 --> 00:00:39,800

Can shoving your finger into a gun barrel really save your life?

9

00:00:41,800 --> 00:00:43,800

Who are the Mythbusters?

10

00:00:43,800 --> 00:00:45,800

Adam Savage.

11

00:00:45,800 --> 00:00:48,800

Jamie Heineman.

12

00:00:48,800 --> 00:00:51,300

This is gonna kill you.

13

00:00:51,300 --> 00:00:52,300

Tori Balachy.

14

00:00:52,300 --> 00:00:53,800

Very excited about this.

15

00:00:53,800 --> 00:00:54,800

Carrie Byron.

16

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

Look, he cracked into a skull.

17

00:00:56,800 --> 00:00:57,800

And Grant Imajara.

18

00:00:57,800 --> 00:00:59,800

Don't say anything.

19

00:00:59,800 --> 00:01:03,800

Between them, over 50 years of special effects experience.

20

00:01:03,800 --> 00:01:05,800

That's what I'm talking about.

21

00:01:05,800 --> 00:01:07,800

They don't just tell the myths.

22

00:01:08,800 --> 00:01:10,800

They put them to the test.

23

00:01:10,800 --> 00:01:28,800

Whenever the Mythbusters have sailed for science, Adam's dirty little secret has been shocked

24

00:01:28,800 --> 00:01:30,800

up.

25

00:01:30,800 --> 00:01:33,800

He and the sea just don't agree.

26

00:01:33,800 --> 00:01:36,800

And it's time to find a solution.

27

00:01:36,800 --> 00:01:39,800

Well, Adam, as we've seen, you have a problem with seasickness.

28

00:01:39,800 --> 00:01:48,800

We definitely need to find something for you, but things that are pharmacological often have side effects like drowsiness and dizziness and things that you don't want to do in a table saw.

29

00:01:48,800 --> 00:01:53,800

Well, I mean, there are also a lot of non-pharmaceutical remedies out there.

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00:01:53,800 --> 00:01:57,800

I mean, there's wrist straps, there's electrical stimulation, there's sprays.

31

00:01:57,800 --> 00:02:01,800

These days, there are non-pharmaceutical cures of plenty.

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00:02:01,800 --> 00:02:05,800

And the Mythbusters are gonna put them to the test.

33

00:02:05,800 --> 00:02:08,800

But the ocean is a fickle place.

34

00:02:08,800 --> 00:02:13,800

One day it's chuck-tastic, but the next could be mirror-flat.

35

00:02:13,800 --> 00:02:19,800

Sadly for Adam, Jamie's got a plan that guarantees the gratuitous gagging.

36

00:02:19,800 --> 00:02:23,800

I think what we need to do is something more like what NASA does.

37

00:02:23,800 --> 00:02:28,800

That is build a chair that moves you around in a certain way that's designed to make you seasick.

38

00:02:28,800 --> 00:02:32,800

And then every day we'll come back in and try, you know, a brand new remedy.

39

00:02:32,800 --> 00:02:35,800

You sound really excited about this experiment.

40

00:02:35,800 --> 00:02:37,800

I'm really looking forward to it.

41

00:02:38,800 --> 00:02:43,800

When it comes to making people puke, NASA are the experts.

42

00:02:43,800 --> 00:02:48,800

They've got the zero-gravity plane famously called the Vomit Comet.

43

00:02:50,800 --> 00:02:55,800

But believe it or not, the real spew machine is the seasick chair.

44

00:02:55,800 --> 00:03:00,800

At just seven revolutions per minute, it's surprisingly effective.

45

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

And Cari's copying this lethal NASA design that the team can then ride right here in the shop.

46

00:03:09,800 --> 00:03:12,800

But why exactly do people get seasick?

47

00:03:16,800 --> 00:03:20,800

Well, Adam, you know, you're not alone in getting motion sickness.

48

00:03:20,800 --> 00:03:28,800

Fishermen get it, navy personnel get it, and our researchers even turned up that 90% of NASA's astronauts get it.

49

00:03:28,800 --> 00:03:33,800

Well, it is always a relief not to be alone in a specific ailment, but what causes motion sickness?

50

00:03:33,800 --> 00:03:35,800

Why are so many people affected by it?

51

00:03:35,800 --> 00:03:43,800

You're on a boat or something, and your eyes are telling you that the walls and the furniture, the table is all stationary.

52

00:03:43,800 --> 00:03:50,800

But your other senses, your inner ear, your fine muscle controls, all of those things are telling you something else.

53

00:03:50,800 --> 00:03:53,800

So it's this confusing input of signals.

54

00:03:53,800 --> 00:03:56,800

And the result is that I throw up.

55

00:03:57,800 --> 00:04:01,800

It's all down to the senses not singing from the same song sheet.

56

00:04:01,800 --> 00:04:09,800

And the poor old brain being barraged with conflicting information, well, just can't compute.

57

00:04:09,800 --> 00:04:14,800

Only people who get seasick can help find a cure that works.

58

00:04:14,800 --> 00:04:21,800

So before the experiment can start, the whole team must go for a spin to see who feels the effects.

59

00:04:21,800 --> 00:04:25,800

And likely spewer, Adam, is up first.

60

00:04:26,800 --> 00:04:29,800

I gotta tell you, it's already pretty disorienting.

61

00:04:29,800 --> 00:04:32,800

Alright, Jamie's gonna time it, and I'm gonna tell you what to do with your head.

62

00:04:32,800 --> 00:04:39,800

Forward, back, left, right.

63

00:04:39,800 --> 00:04:44,800

The time it takes NASA to induce seasickness varies depending on the victim.

64

00:04:44,800 --> 00:04:46,800

I'm starting to sweat.

65

00:04:46,800 --> 00:04:48,800

Right, back.

66

00:04:48,800 --> 00:04:49,800

Let's stop it.

67

00:04:49,800 --> 00:04:51,800

So you're claiming this is it for you?

68

00:04:51,800 --> 00:04:54,800

I'm claiming I already feel pretty queasy.

69

00:04:54,800 --> 00:05:02,800

After three and a half minutes, Adam staggers off knowing he's just become test subject number one.

70

00:05:02,800 --> 00:05:05,800

And will he be joined by Jamie?

71

00:05:05,800 --> 00:05:12,800

Given that this machine is designed to make you sick, I would say that it's entirely possible that

I'll get sick.

72

00:05:12,800 --> 00:05:19,800

He will ride that chair, he will swallow his vomit, he will do whatever it takes to keep the myth up that he is completely unsusceptible.

73

00:05:19,800 --> 00:05:22,800

So we're never gonna get any symptoms out of him no matter what.

74

00:05:22,800 --> 00:05:25,800

His self-control is gargantuan.

75

00:05:28,800 --> 00:05:29,800

Right.

76

00:05:29,800 --> 00:05:31,800

But Carrie's got other ideas.

77

00:05:31,800 --> 00:05:32,800

Left.

78

00:05:32,800 --> 00:05:36,800

She's trying everything to turn Jamie green.

79

00:05:36,800 --> 00:05:43,800

Back, forward, back, forward, back, left, forward, right.

80

00:05:43,800 --> 00:05:48,800

After half an hour, how's he doing?

81

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

I'm kind of like bored a little bit.

82

00:05:51,800 --> 00:05:53,800

He's just a little too amused with this.

83

00:05:53,800 --> 00:05:55,800

It's starting to get me off.

84

00:05:57,800 --> 00:05:58,800

That's it.

85

00:05:58,800 --> 00:05:59,800

You made it.

86

00:05:59,800 --> 00:06:05,800

With Sea Dog Jamie as fit as a fiddle, Adam's still waiting for a barf buddy.

87

00:06:05,800 --> 00:06:06,800

Sorry.

88

00:06:07,800 --> 00:06:14,800

But, worryingly for him, neither Carrie, nor Tori.

89

00:06:14,800 --> 00:06:15,800

This is fun.

90

00:06:15,800 --> 00:06:16,800

I can do this all day.

91

00:06:16,800 --> 00:06:18,800

So come to the chair.

92

00:06:18,800 --> 00:06:20,800

Grant!

93

00:06:20,800 --> 00:06:23,800

That just leaves Grant.

94

00:06:23,800 --> 00:06:25,800

We've got a plan for you.

95

00:06:25,800 --> 00:06:30,800

Forward, back, forward, back.

96

00:06:30,800 --> 00:06:34,800

It's an evil plan that soon seems to be working.

97

00:06:34,800 --> 00:06:37,800

There's something coming up in my throat.

98

00:06:37,800 --> 00:06:38,800

But, forward.

99

00:06:38,800 --> 00:06:43,800

I'm not in any immediate danger of spewing.

100

00:06:43,800 --> 00:06:44,800

Forward.

101

00:06:44,800 --> 00:06:45,800

No?

102

00:06:45,800 --> 00:06:48,800

Well, ten minutes later, that all changes.

103

00:06:53,800 --> 00:06:54,800

Uh-oh.

104

00:06:54,800 --> 00:06:58,800

So Grant's going to be Adam's puke partner.

105

00:06:59,800 --> 00:07:05,800

But before the clinical trials can begin, the team is going to hit the road with another myth.

106

00:07:12,800 --> 00:07:16,800

Well, it looks like we've got another driving fuel efficiency myth, a classic.

107

00:07:16,800 --> 00:07:21,800

This time, the myth is that driving your pickup truck with the tailgate down

108

00:07:21,800 --> 00:07:24,800

gives you better fuel efficiency than driving with it up.

109

00:07:24,800 --> 00:07:28,800

I've been driving a pickup for the past ten years and I live it up.

110

00:07:28,800 --> 00:07:34,800

Well, we're going to find out whether or not you've been wasting money, which I know you hate to do.

111

00:07:34,800 --> 00:07:37,800

Is tailgate down really more efficient than tailgate up?

112

00:07:37,800 --> 00:07:42,800

To test this driver dilemma, Adam and Jamie are going to drive to the desert.

113

00:07:45,800 --> 00:07:48,800

And back to see who runs out of gas first.

114

00:07:49,800 --> 00:07:54,800

The mythbusters have acquired two identical new pickups.

115

00:07:54,800 --> 00:07:57,800

Each vehicle has done the same mileage.

116

00:07:57,800 --> 00:08:00,800

Has the same tire pressure?

117

00:08:00,800 --> 00:08:01,800

35.

118

00:08:01,800 --> 00:08:04,800

We'll be carrying the same weight.

119

00:08:04,800 --> 00:08:05,800

Hey!

120

00:08:05,800 --> 00:08:06,800

226.8.

121

00:08:06,800 --> 00:08:07,800

226.8.

122

00:08:12,800 --> 00:08:14,800

You really had to go.

123

00:08:15,800 --> 00:08:21,800

And to ensure equal fuel consumption, Grant has even devised a set of driving rules.

124

00:08:24,800 --> 00:08:27,800

Number one, you must maintain the legal speed limit.

125

00:08:27,800 --> 00:08:32,800

Number two, all acceleration must be done by the cruise control.

126

00:08:32,800 --> 00:08:38,800

Number three, no drafting so you don't take advantage of any aerodynamic advantage.

127

00:08:38,800 --> 00:08:44,800

Number four, windows up and if you have air conditioning, it's got to be exactly the same in both cars.

128

00:08:44,800 --> 00:08:46,800

And away we go.

129

00:08:46,800 --> 00:08:50,800

That's the theory, so it's time to put this pickup parable into practice.

130

00:08:50,800 --> 00:08:54,800

And Jamie's leading off with the tailgate up.

131

00:08:54,800 --> 00:08:59,800

Carver speed limit is 50 miles per hour.

132

00:08:59,800 --> 00:09:00,800

Over.

133

00:09:00,800 --> 00:09:01,800

Roger that.

134

00:09:01,800 --> 00:09:05,800

I will cruise control at exactly 50 miles per hour.

135

00:09:05,800 --> 00:09:09,800

I am also on cruise control at 50 miles an hour as well.

136

00:09:09,800 --> 00:09:10,800

Thank you.

137

00:09:10,800 --> 00:09:13,800

The mythbusters are in for the long haul.

138

00:09:13,800 --> 00:09:15,800

These pickups are filled to the brim.

139

00:09:15,800 --> 00:09:17,800

That's over 30 gallons.

140

00:09:17,800 --> 00:09:19,800

It's going to be a hell of a trip.

141

00:09:23,800 --> 00:09:26,800

Later, Adam spews for science.

142

00:09:26,800 --> 00:09:27,800

Stop, stop.

143

00:09:27,800 --> 00:09:30,800

I hate this **** chair.

144

00:09:30,800 --> 00:09:34,800

But next, the team goes cartoon crazy.

145

00:09:48,800 --> 00:09:51,800

Well, I see you guys have gotten into the gun cabinet again.

146

00:09:51,800 --> 00:09:54,800

Are you up to no good or is this something to do with a myth?

147

00:09:54,800 --> 00:09:57,800

Well, we've chosen quite a fun project.

148

00:09:57,800 --> 00:10:01,800

It's an old classic from the sci-fi's, the movies, and definitely cartoons.

149

00:10:01,800 --> 00:10:03,800

It's the finger in the barrel.

150

00:10:03,800 --> 00:10:09,800

The idea is that if somebody points a gun at you, you can take your finger and stick it right in the barrel.

151

00:10:09,800 --> 00:10:13,800

When they pull the trigger, your hand will be magically saved.

152

00:10:13,800 --> 00:10:18,800

The gun will explode and injure or possibly kill the shooter.

153

00:10:18,800 --> 00:10:21,800

Well, guns, cartoons, maybe some big bangs.

154

00:10:21,800 --> 00:10:23,800

Sounds like fun.

155

00:10:23,800 --> 00:10:25,800

It's a cartoon classic.

156

00:10:25,800 --> 00:10:27,800

Who are the Myth Toons?

157

00:10:28,800 --> 00:10:29,800

Hunter Heinemann.

158

00:10:29,800 --> 00:10:30,800

Crack, damn you.

159

00:10:30,800 --> 00:10:32,800

And Savage Squirrels.

160

00:10:33,800 --> 00:10:35,800

Is my missing an eyebrow?

161

00:10:39,800 --> 00:10:42,800

Our sharp shooter is on the warpath.

162

00:10:42,800 --> 00:10:45,800

Stalking a snack-happy squirrel.

163

00:10:45,800 --> 00:10:49,800

But the ginger rodent has a life-saving trick up his sleeve.

164

00:10:50,800 --> 00:10:54,800

Faced with certain death, he plugs the barrel.

165

00:10:54,800 --> 00:10:58,800

And the hunter's plans literally backfire.

166

00:11:00,800 --> 00:11:06,800

But is this loony myth constrained to cartoons or does it really happen?

167

00:11:07,800 --> 00:11:09,800

Well, what's going on here?

168

00:11:09,800 --> 00:11:13,800

Are we going to just buy a bunch of guns and start plugging the barrels up and see what happens?

169

00:11:13,800 --> 00:11:18,800

I thought maybe we'd start with a shotgun, since that's the one that you always see in the cartoons.

170

00:11:18,800 --> 00:11:20,800

We're definitely going to need a hand.

171

00:11:20,800 --> 00:11:26,800

I'm thinking of maybe taking a Ballistics Gel casting and giving it some rigidity by casting a skeleton inside of it.

172

00:11:26,800 --> 00:11:32,800

And we're going to need to see what happens to the shooter if and when the gun explodes, so we'll need a bust.

173

00:11:32,800 --> 00:11:35,800

Well, it sounds good to me. Let's get started on it.

174

00:11:36,800 --> 00:11:42,800

They're going to make a Ballistics Gel bust of a shooter and line him up behind a shotgun.

175

00:11:42,800 --> 00:11:45,800

Then they'll plug the barrel with an artificial finger.

176

00:11:46,800 --> 00:11:49,800

Pull the trigger and see who comes off worse.

177

00:11:50,800 --> 00:11:52,800

So it's all hands to the pump.

178

00:11:53,800 --> 00:11:55,800

Hey, Tari, can you come give me a hand with something?

179

00:11:56,800 --> 00:11:57,800

What do you need?

180

00:11:57,800 --> 00:12:02,800

I actually need your hand. I'm going to make a Ballistics Gel model of a hand.

181

00:12:02,800 --> 00:12:04,800

And so you need a hand?

182

00:12:04,800 --> 00:12:06,800

I need a hand with my hand.

183

00:12:06,800 --> 00:12:12,800

Tari's lending a hand for what will become a Ballistics Gel finger that'll be stuffed into the shotgun barrel.

184

00:12:15,800 --> 00:12:17,800

Ooh, that looks like it came out good.

185

00:12:17,800 --> 00:12:19,800

Yeah, no ripping. All right.

186

00:12:19,800 --> 00:12:21,800

Next it's in with the plaster.

187

00:12:22,800 --> 00:12:28,800

As Carrie beats out the bubbles, Tari and Grant decide to get ahead.

188

00:12:29,800 --> 00:12:32,800

Okay, so why are we at the makeup shop?

189

00:12:32,800 --> 00:12:35,800

Well, we're going to do a live cast and we need the materials to do that.

190

00:12:35,800 --> 00:12:40,800

And we've decided that you're the one that we're going to do the live cast on, so let's go.

191

00:12:41,800 --> 00:12:47,800

Grant's been volunteered to be the live cast model for their Ballistics Gel shooter.

192

00:12:52,800 --> 00:12:53,800

How you doing?

193

00:12:53,800 --> 00:12:54,800

Hi guys.

194

00:12:54,800 --> 00:12:55,800

I'm Tari.

195

00:12:55,800 --> 00:12:56,800

Look, Joe, Joe Quartz. Nice to meet you.

196

00:12:56,800 --> 00:12:57,800

Grant, nice to meet you.

197

00:12:57,800 --> 00:13:02,800

All right, we need to do a live cast of Grant and he doesn't want to shave his head for some reason.

198

00:13:02,800 --> 00:13:04,800

No problem, we use a ball point for that.

199

00:13:04,800 --> 00:13:06,800

It'll completely cover up your head.

200

00:13:06,800 --> 00:13:07,800

Great.

201

00:13:07,800 --> 00:13:08,800

All your hair is spared.

202

00:13:08,800 --> 00:13:09,800

Start from the back.

203

00:13:11,800 --> 00:13:12,800

Yeah, there you go.

204

00:13:14,800 --> 00:13:15,800

Dude.

205

00:13:16,800 --> 00:13:17,800

It's a good look, right?

206

00:13:17,800 --> 00:13:18,800

Yeah.

207

00:13:18,800 --> 00:13:19,800

Can you wear this out?

208

00:13:19,800 --> 00:13:20,800

Yeah.

209

00:13:20,800 --> 00:13:21,800

Can I borrow this for the weekend?

210

00:13:22,800 --> 00:13:23,800

Thank you.

211

00:13:23,800 --> 00:13:24,800

Oh, oh.

212

00:13:24,800 --> 00:13:25,800

There it is, mustache.

213

00:13:26,800 --> 00:13:29,800

Yeah, so when you're ready to cast, what you want to do is...

214

00:13:29,800 --> 00:13:30,800

A little bit of a drummer.

215

00:13:30,800 --> 00:13:35,800

You'll need somebody else to come by and draw a line exactly where you want.

216

00:13:35,800 --> 00:13:36,800

Great. Good.

217

00:13:36,800 --> 00:13:37,800

Are we done?

218

00:13:37,800 --> 00:13:38,800

Yeah, done. That looks great.

219

00:13:38,800 --> 00:13:39,800

Okay.

220

00:13:39,800 --> 00:13:44,800

But back at the shop, does Grant really know what he's letting himself in for?

221

00:13:45,800 --> 00:13:52,800

I've never had a live cast done of me before, but in the 12 or so years that I worked for Lucasfilm,

222

00:13:52,800 --> 00:13:58,800

I portrayed many costume characters and I've been encased head to toe in fiberglass.

223

00:13:58,800 --> 00:14:03,800

So this, I think this will be a walk in the park compared to that.

224

00:14:04,800 --> 00:14:06,800

Now that's a strange feeling.

225

00:14:11,800 --> 00:14:16,800

Just like they do in the movies, Tari's first going to cover Grant in blue mold mixture

226

00:14:16,800 --> 00:14:19,800

and then plaster him with plaster.

227

00:14:20,800 --> 00:14:23,800

Let's have a safety word in case you start freaking out.

228

00:14:23,800 --> 00:14:24,800

Oh, like...

229

00:14:24,800 --> 00:14:26,800

Like, like help get this stuff off me?

230

00:14:26,800 --> 00:14:27,800

Something like that.

231

00:14:27,800 --> 00:14:28,800

Yeah, I like help.

232

00:14:28,800 --> 00:14:29,800

Help's good to do.

233

00:14:29,800 --> 00:14:30,800

That's easy to remember.

234

00:14:30,800 --> 00:14:31,800

Okay.

235

00:14:31,800 --> 00:14:37,800

Easy to remember, but unlikely to be needed because these guys are trained professionals.

236

00:14:37,800 --> 00:14:41,800

Oh, that is just as nasty as I expected it to feel.

237

00:14:43,800 --> 00:14:49,800

Slowly, Grant begins his transformation into the creature from the blue lagoon.

238

00:14:57,800 --> 00:14:59,800

If you're okay, I want you to grant twice.

239

00:14:59,800 --> 00:15:03,800

I think he's alright.

240

00:15:03,800 --> 00:15:10,800

From a grunting swamp thing, Tari switches horror genre as the mummy returns.

241

00:15:10,800 --> 00:15:13,800

It's really frightening from this side.

242

00:15:13,800 --> 00:15:19,800

And with one of the straws falling out of his nose, it's here where panic can really set in.

243

00:15:21,800 --> 00:15:22,800

Coming up on Mythbusters.

244

00:15:22,800 --> 00:15:24,800

Can we get Grant out of this mold?

245

00:15:30,800 --> 00:15:40,800

The Mythbusters are investigating a classic cartoon calamity.

246

00:15:40,800 --> 00:15:46,800

Can shoving your fingers into a shotgun barrel cause an explosive backfire?

247

00:15:48,800 --> 00:15:52,800

Kari's been modeling a finger that she's going to shove into the shotgun barrel.

248

00:15:55,800 --> 00:15:58,800

While Tari's been making a model shooter,

249

00:15:58,800 --> 00:16:01,800

in this case, a live cast of Grant.

250

00:16:01,800 --> 00:16:05,800

Luckily for Grant, Tari has done this before.

251

00:16:05,800 --> 00:16:08,800

One time I had to do an actress's legs.

252

00:16:08,800 --> 00:16:14,800

I was making a mermaid suit and that was probably one of the times where I was most nervous

253

00:16:14,800 --> 00:16:17,800

because she was very good looking and I didn't know her.

254

00:16:17,800 --> 00:16:21,800

And you know, there were certain areas that you have to put the material on,

255

00:16:21,800 --> 00:16:23,800

but you're just kind of cautious about it.

256

00:16:23,800 --> 00:16:26,800

Okay dude, you ready to come out?

257

00:16:27,800 --> 00:16:30,800

For Tari, there's no more beating about the bush.

258

00:16:30,800 --> 00:16:32,800

It's time to rescue Grant.

259

00:16:34,800 --> 00:16:40,800

After some careful slicing and dicing, Grant finally busts out.

260

00:16:44,800 --> 00:16:46,800

The last part was difficult wasn't it?

261

00:16:46,800 --> 00:16:49,800

As Tari heads on towards a ballistics gel version,

262

00:16:49,800 --> 00:16:55,800

Grant's being honored for his bravery with a trip to the police firing range.

263

00:16:56,800 --> 00:17:01,800

Because someone needs to check that the Mythbusters shotgun still works.

264

00:17:08,800 --> 00:17:09,800

Bingo!

265

00:17:09,800 --> 00:17:11,800

This sure ain't no water pistol.

266

00:17:11,800 --> 00:17:14,800

If it's not touching you, it's going to kick you.

267

00:17:14,800 --> 00:17:16,800

In three, two, one.

268

00:17:16,800 --> 00:17:18,800

But best to double check.

269

00:17:19,800 --> 00:17:20,800

Much better, huh?

270

00:17:20,800 --> 00:17:26,800

Fortunately, Grant soon remembers that he's also here to ask gun expert Alan Normandy

271

00:17:26,800 --> 00:17:29,800

what might cause a banana peel explosion.

272

00:17:32,800 --> 00:17:34,800

And it's all to do with pressure.

273

00:17:34,800 --> 00:17:38,800

Whenever a bullet is being shoved down a barrel essentially,

274

00:17:38,800 --> 00:17:40,800

it's being shoved by the expanding gas.

275

00:17:40,800 --> 00:17:43,800

So as the gunpowder burns, the gases expand.

276

00:17:43,800 --> 00:17:48,800

Now if you plug that barrel, now you're not giving the escaping gases anywhere to go.

277

00:17:48,800 --> 00:17:51,800

So it's going to go ahead and find some way out.

278

00:17:52,800 --> 00:17:54,800

So let's get this straight.

279

00:17:54,800 --> 00:17:57,800

When a bullet is fired, a small explosion occurs.

280

00:17:58,800 --> 00:18:02,800

As the gas expands, it forces the bullet through and out of the barrel.

281

00:18:04,800 --> 00:18:08,800

But if the barrel is sealed shut, the gas has no way to escape

282

00:18:08,800 --> 00:18:12,800

and the pressure can build until the gun ruptures.

283

00:18:13,800 --> 00:18:15,800

We need to test this at MythBusters.

284

00:18:15,800 --> 00:18:19,800

What do you think is going to happen when we take our ballistics gel finger

285

00:18:19,800 --> 00:18:21,800

and put that in the barrel of a 12-gauge shotgun?

286

00:18:21,800 --> 00:18:25,800

I don't think you can create a sufficient seal to contain the pressure

287

00:18:25,800 --> 00:18:30,800

just with a gelatin finger, a chicken finger or any other kind of finger.

288

00:18:30,800 --> 00:18:35,800

To get this myth to work, they're going to need to pull their finger out.

289

00:18:36,800 --> 00:18:43,800

Back with the Tailgate Challenge. Adam and Jamie are halfway through.

290

00:18:43,800 --> 00:18:48,800

They've driven over 300 miles and yet so far there appears to be no difference

291

00:18:48,800 --> 00:18:52,800

between tailgate up and tailgate down.

292

00:18:53,800 --> 00:18:55,800

So how much gas did you use?

293

00:18:55,800 --> 00:18:58,800

Just about a half tank.

294

00:18:58,800 --> 00:18:59,800

Yeah, I'm spot on a half.

295

00:18:59,800 --> 00:19:03,800

These things are like behemoths in the tank department.

296

00:19:04,800 --> 00:19:08,800

Well, there's something for them to dream about until dawn breaks

297

00:19:08,800 --> 00:19:11,800

and they set off once more.

298

00:19:12,800 --> 00:19:16,800

If the myth is true, then tailgate up Jamie should run out of gas

299

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

well before tailgate down Adam.

300

00:19:20,800 --> 00:19:26,800

But eight hours and 200 miles later, there's a surprise in store.

301

00:19:26,800 --> 00:19:28,800

That's it. I just petered out.

302

00:19:29,800 --> 00:19:34,800

We're about 40 miles outside of San Francisco just in the Althamon Pass

303

00:19:34,800 --> 00:19:38,800

and I just finally ran out of gas with the tailgate down.

304

00:19:39,800 --> 00:19:44,800

As Adam refuels to get home, tailgate up Jamie carries on.

305

00:19:44,800 --> 00:19:50,800

Remember that these cars were carbon copies and they were driven in an identical way.

306

00:19:50,800 --> 00:19:56,800

Yet remarkably, tailgate up runs dry nearly 30 miles further down the track.

307

00:19:57,800 --> 00:20:00,800

Yeah, it's definitely out. I'm keying it off over.

308

00:20:00,800 --> 00:20:07,800

Because it's another counterintuitive result, Adam and Jamie head back to base to delve deeper.

309

00:20:09,800 --> 00:20:11,800

I don't think we're done testing this.

310

00:20:11,800 --> 00:20:15,800

I think we have to actually come up with a way to visualize how the air moves around the truck.

311

00:20:15,800 --> 00:20:17,800

I'm just not sure how we should do it.

312

00:20:17,800 --> 00:20:22,800

Well, rather than build a gigantic wind tunnel, maybe we should do what NASA does

313

00:20:22,800 --> 00:20:26,800

and build a water tunnel kind of version in miniature.

314

00:20:26,800 --> 00:20:28,800

Yeah, that sounds like a great idea.

315

00:20:28,800 --> 00:20:33,800

Thanks to NASA, they're building a donut-shaped tank that'll have water flowing around it,

316

00:20:33,800 --> 00:20:36,800

courtesy of an outboard engine.

317

00:20:37,800 --> 00:20:40,800

Within the main current will sit a scale model pickup truck.

318

00:20:41,800 --> 00:20:45,800

Once it's filled with water, they'll add food dye to the flow

319

00:20:45,800 --> 00:20:51,800

and hopefully will visualize the amount of drag created by the tailgate up and the tailgate down.

320

00:20:52,800 --> 00:20:53,800

Okay.

321

00:20:56,800 --> 00:20:58,800

That'll make it work fine.

322

00:21:00,800 --> 00:21:06,800

But as Jamie adds more and more food dye, the results aren't exactly crystal clear.

323

00:21:11,800 --> 00:21:16,800

According to the designers of these trucks, there's a sort of a circular pillow of air

324

00:21:16,800 --> 00:21:20,800

that forms behind the cab of the truck when the tailgate is up.

325

00:21:20,800 --> 00:21:27,800

And that is known as a separated bubble, or if you're really nerdy, a locked vortex flow.

326

00:21:27,800 --> 00:21:32,800

What that actual bubble is doing is that nice circular motion of slow moving air

327

00:21:32,800 --> 00:21:36,800

is actually keeping the fast moving air from contacting the truck,

328

00:21:36,800 --> 00:21:38,800

making it move right over the truck.

329

00:21:38,800 --> 00:21:42,800

When you move the tailgate down, that actually breaks down that bubble

330

00:21:42,800 --> 00:21:47,800

and the fast moving air gets caught and brought into the bed of the pickup producing drag.

331

00:21:47,800 --> 00:21:49,800

Believe it or not.

332

00:21:50,800 --> 00:21:53,800

Well, with the dye, it was hard to believe.

333

00:21:54,800 --> 00:21:57,800

So Adam tries again with oats instead.

334

00:21:59,800 --> 00:22:04,800

The vortex there that's in the bed of the truck is gathering oats slowly

335

00:22:04,800 --> 00:22:10,800

but at a very sort of steady measured pace and you can see they're mostly just staying there in

that pocket.

336

00:22:11,800 --> 00:22:18,800

That's the elusive, a separated bubble that deflects the oncoming wind over the raised tailgate.

337

00:22:20,800 --> 00:22:23,800

Alright, I'm going to drop the tray down and we'll see if we can spot any difference.

338

00:22:23,800 --> 00:22:24,800

Okay.

339

00:22:25,800 --> 00:22:29,800

I think what I see is that it's gathering them at a much faster rate

340

00:22:29,800 --> 00:22:33,800

and it's right about here, they're hitting this critical point where I can see them kind of falling off

341

00:22:33,800 --> 00:22:36,800

and joining in with their friends.

342

00:22:36,800 --> 00:22:40,800

The lowered tailgate bursts the separated bubble.

343

00:22:40,800 --> 00:22:45,800

So the wind is pulled down right onto the truck bed, creating big time drag.

344

00:22:45,800 --> 00:22:48,800

It really is a less efficient way to drive.

345

00:22:50,800 --> 00:22:52,800

Well, I don't know what else we can do.

346

00:22:52,800 --> 00:22:59,800

I mean, we've got our own experimental data that verifies that it's better to drive with your pickup tailgate up than it is down.

347

00:22:59,800 --> 00:23:02,800

I just wouldn't have guessed that. It's totally surprising.

348

00:23:02,800 --> 00:23:04,800

What are you going to do?

349

00:23:04,800 --> 00:23:07,800

Well, I'll tell you what I'm going to do. I'm going to wait for their emails to come.

350

00:23:12,800 --> 00:23:16,800

Coming right up, the search for a seasickness solution.

351

00:23:21,800 --> 00:23:27,800

Adam and Grant are putting their lunches on the line as the Mythbusters seek a seasickness solution.

352

00:23:27,800 --> 00:23:32,800

Each day they're going to test a different non-pharmaceutical remedy.

353

00:23:34,800 --> 00:23:38,800

And first up is the homeopathic tongue tingler.

354

00:23:38,800 --> 00:23:40,800

That burned!

355

00:23:40,800 --> 00:23:44,800

So apparently the directions are a simple way to get there.

356

00:23:44,800 --> 00:23:48,800

But ten minutes in and five sprays later, it's not going well.

357

00:23:48,800 --> 00:23:52,800

Grant, would you rely on this remedy in a seasick situation?

358

00:23:52,800 --> 00:23:57,800

If I were out on the open ocean, this wouldn't be my only choice.

359

00:23:57,800 --> 00:24:02,800

Good job because soon after, things turn nasty.

360

00:24:02,800 --> 00:24:04,800

I'm going to go get a new one.

361

00:24:04,800 --> 00:24:06,800

I'm going to get a new one.

362

00:24:06,800 --> 00:24:08,800

I'm going to get a new one.

363

00:24:08,800 --> 00:24:10,800

I'm going to get a new one.

364

00:24:10,800 --> 00:24:13,800

Soon after, things turn nasty.

365

00:24:21,800 --> 00:24:23,800

There's a bucket in front of us.

366

00:24:23,800 --> 00:24:25,800

Well that remedy doesn't work.

367

00:24:26,800 --> 00:24:30,800

So the tongue spray clearly doesn't float Grant's bow.

368

00:24:31,800 --> 00:24:33,800

Next!

369

00:24:34,800 --> 00:24:37,800

But Adam's not having much joy either.

370

00:24:41,800 --> 00:24:44,800

Just four minutes and he's had enough.

371

00:24:44,800 --> 00:24:46,800

Alright let's turn it up.

372

00:24:52,800 --> 00:24:54,800

You look a little green.

373

00:24:54,800 --> 00:24:56,800

I feel a little green.

374

00:24:56,800 --> 00:25:00,800

After the boys make a full recovery, it's trial number two.

375

00:25:00,800 --> 00:25:05,800

Next up in our quest for a non-pharmaceutical remedy for seasickness.

376

00:25:05,800 --> 00:25:10,800

We've got these little wrist straps, which I think I'm supposed to wear on my wrists.

377

00:25:10,800 --> 00:25:15,800

And supposedly Barry Mantelow doesn't travel anywhere without them

378

00:25:15,800 --> 00:25:17,800

and maybe I won't either after this test.

379

00:25:18,800 --> 00:25:22,800

They're especially effective when sailing to the Copacabana.

380

00:25:22,800 --> 00:25:24,800

I feel better already.

381

00:25:24,800 --> 00:25:26,800

Alright let's bring out this view.

382

00:25:27,800 --> 00:25:29,800

This time Adam spins first.

383

00:25:30,800 --> 00:25:32,800

You're starting to like it.

384

00:25:32,800 --> 00:25:34,800

There's nothing to like about this.

385

00:25:36,800 --> 00:25:41,800

And sure enough, 90 seconds later...

386

00:25:42,800 --> 00:25:44,800

These aren't working at all.

387

00:25:44,800 --> 00:25:46,800

Let's stop.

388

00:25:46,800 --> 00:25:49,800

It's all instantaneous today, I don't know why.

389

00:25:49,800 --> 00:25:53,800

Well they may work for Barry Mantelow, but they don't work for crap for me.

390

00:25:54,800 --> 00:25:57,800

And neither do they work for Grant.

391

00:25:57,800 --> 00:25:59,800

Okay that's it.

392

00:26:00,800 --> 00:26:06,800

So it's chair two, Remedy's Zip.

393

00:26:13,800 --> 00:26:17,800

Tori and Carrie have been building model body parts to help test

394

00:26:17,800 --> 00:26:21,800

whether shoving your fingers down a gun barrel can save your life.

395

00:26:21,800 --> 00:26:23,800

This smells like crap.

396

00:26:23,800 --> 00:26:27,800

And with the ballistics gel body parts chilling in the fridge,

397

00:26:27,800 --> 00:26:30,800

the teen turns the heat up on safety.

398

00:26:32,800 --> 00:26:36,800

My job for this myth is going to be to make a remote firing mechanism

399

00:26:36,800 --> 00:26:39,800

since there's potential that the barrel is going to explode.

400

00:26:39,800 --> 00:26:42,800

We don't want to have anybody nearby.

401

00:26:43,800 --> 00:26:46,800

He's designing a remote controlled trigger pull

402

00:26:46,800 --> 00:26:50,800

which means that no one needs to be in the shooting bunker to fire the gun.

403

00:26:53,800 --> 00:26:55,800

But does it work?

404

00:26:58,800 --> 00:27:00,800

Perfectly.

405

00:27:01,800 --> 00:27:04,800

With Grant you get two for the price of one

406

00:27:04,800 --> 00:27:08,800

because his ballistics gel counterpart is ready to be demolded.

407

00:27:15,800 --> 00:27:18,800

Oh, someone's head's going to roll for this.

408

00:27:18,800 --> 00:27:20,800

Sabotage.

409

00:27:20,800 --> 00:27:23,800

Grant's proving to be one big pain in the neck.

410

00:27:23,800 --> 00:27:28,800

And Carrie's been handed the same problem.

411

00:27:31,800 --> 00:27:34,800

Luckily her second hand makes amends.

412

00:27:34,800 --> 00:27:38,800

Oh, yes, it's the best one yet.

413

00:27:38,800 --> 00:27:40,800

Oh my God, look at this one.

414

00:27:40,800 --> 00:27:42,800

Look how cool this looks.

415

00:27:42,800 --> 00:27:44,800

You can totally see the skeleton inside.

416

00:27:44,800 --> 00:27:50,800

With test time approaching, the team are one hand down and short by a head.

417

00:27:50,800 --> 00:27:54,800

So Tari decides to recycle previous ballistics models.

418

00:27:55,800 --> 00:27:58,800

It's faster and harder to screw up.

419

00:28:02,800 --> 00:28:07,800

And sure enough, with Adam and Jamie's help, the new Grant has come out in one piece.

420

00:28:07,800 --> 00:28:10,800

Little Imahara.

421

00:28:13,800 --> 00:28:16,800

Looks like the doctor didn't reshape his head when he came out.

422

00:28:16,800 --> 00:28:18,800

It'll be fine.

423

00:28:22,800 --> 00:28:25,800

The last ingredient is ready.

424

00:28:25,800 --> 00:28:28,800

With the radio control shotgun,

425

00:28:28,800 --> 00:28:32,800

Buster complete with new hands,

426

00:28:32,800 --> 00:28:37,800

and the ballistics shooter all locked and loaded in the bunker,

427

00:28:37,800 --> 00:28:40,800

the myth busting can begin.

428

00:28:42,800 --> 00:28:45,800

Next up, the finger in barrel.

429

00:28:46,800 --> 00:28:49,800

The barrel myth gets fired.

430

00:28:59,800 --> 00:29:02,800

The myth busters have gone cartoon crazy.

431

00:29:02,800 --> 00:29:06,800

Can fingers really stop a shotgun?

432

00:29:09,800 --> 00:29:11,800

All the ingredients are ready,

433

00:29:11,800 --> 00:29:14,800

so let the firing commence.

434

00:29:14,800 --> 00:29:18,800

With the first test, Buster's gel finger is squeezed into the barrel.

435

00:29:18,800 --> 00:29:21,800

Please do not try this at home.

436

00:29:21,800 --> 00:29:23,800

This is test number one.

437

00:29:23,800 --> 00:29:26,800

Finger in a barrel, ballistics gel finger.

438

00:29:26,800 --> 00:29:28,800

Everybody ready?

439

00:29:28,800 --> 00:29:31,800

In three, two, one.

440

00:29:34,800 --> 00:29:35,800

Oh.

441

00:29:35,800 --> 00:29:38,800

Oh, hey, his hands go up.

442

00:29:38,800 --> 00:29:42,800

Well, not only did it destroy the finger, it blew apart the hand.

443

00:29:43,800 --> 00:29:45,800

All the blood is a little stomp of a wrist.

444

00:29:45,800 --> 00:29:48,800

I don't think there's exactly an effective way to stop a bullet.

445

00:29:49,800 --> 00:29:54,800

So for test one, Buster's whole hand was blown to smithereens.

446

00:29:55,800 --> 00:29:57,800

Let's see that again.

447

00:30:00,800 --> 00:30:03,800

Big bang, but no banana barrel.

448

00:30:03,800 --> 00:30:06,800

Just an horrific injury to Buster.

449

00:30:07,800 --> 00:30:11,800

And Grant the shooter gets not a scratch.

450

00:30:11,800 --> 00:30:14,800

We're going to have to use a bigger plug.

451

00:30:14,800 --> 00:30:17,800

We're going to go with another ballistics wax hand.

452

00:30:17,800 --> 00:30:19,800

This time it's a little more robust,

453

00:30:19,800 --> 00:30:22,800

but his test two's hand robust enough.

454

00:30:24,800 --> 00:30:29,800

Sink these off in three, two, one.

455

00:30:31,800 --> 00:30:35,800

The gun is clearly still intact, and his hand is totally gone again.

456

00:30:36,800 --> 00:30:39,800

Something doesn't surprise me about that.

457

00:30:39,800 --> 00:30:42,800

Dude, come here.

458

00:30:42,800 --> 00:30:44,800

Look at the very tip of the barrel.

459

00:30:44,800 --> 00:30:45,800

Aw, he darned.

460

00:30:45,800 --> 00:30:47,800

The barrel has actually changed shape.

461

00:30:47,800 --> 00:30:49,800

Do you guys see the barrel?

462

00:30:49,800 --> 00:30:52,800

Oh, yes!

463

00:30:52,800 --> 00:30:55,800

It is a full-on Bugs Bunny moment.

464

00:30:55,800 --> 00:30:59,800

Man, that was enough pressure in the barrel to cause it to mushroom out like that.

465

00:30:59,800 --> 00:31:01,800

That's amazing.

466

00:31:01,800 --> 00:31:03,800

Adam's getting a little animated.

467

00:31:03,800 --> 00:31:08,800

The finger did have an effect, but it's hardly cartoon comedy.

468

00:31:08,800 --> 00:31:12,800

For this myth to be true, we have three very important criteria.

469

00:31:12,800 --> 00:31:15,800

One, the finger has to remain intact.

470

00:31:15,800 --> 00:31:18,800

Two, the gun itself has to be the thing that explodes.

471

00:31:18,800 --> 00:31:21,800

And three, the shooter has to be the one that's injured or killed.

472

00:31:21,800 --> 00:31:23,800

None of this happened.

473

00:31:23,800 --> 00:31:25,800

The finger blew off.

474

00:31:25,800 --> 00:31:28,800

The end of the rifle just ballooned a little bit.

475

00:31:28,800 --> 00:31:31,800

And the shooter's totally fine.

476

00:31:31,800 --> 00:31:34,800

So at this point, I could call this myth busted.

477

00:31:38,800 --> 00:31:44,800

Adam gets seasickness so badly that he vowed to find a solution.

478

00:31:44,800 --> 00:31:49,800

So he and Grant have become chuck chumps as they test out different cures.

479

00:31:49,800 --> 00:31:55,800

But they're avoiding regular medicine because they want a remedy that is side effect free.

480

00:31:55,800 --> 00:31:58,800

And today, it's ginger pills.

481

00:31:59,800 --> 00:32:01,800

So you took your ginger tablets an hour ago?

482

00:32:01,800 --> 00:32:02,800

I did.

483

00:32:02,800 --> 00:32:03,800

You're all set to go?

484

00:32:03,800 --> 00:32:04,800

Yeah.

485

00:32:05,800 --> 00:32:10,800

The roots of ginger have been used by far eastern sailors for centuries.

486

00:32:10,800 --> 00:32:14,800

And for Adam, ginger seems to be working.

487

00:32:15,800 --> 00:32:17,800

Are you feeling any signs of nausea?

488

00:32:17,800 --> 00:32:19,800

Uh, no.

489

00:32:19,800 --> 00:32:20,800

Nothing?

490

00:32:20,800 --> 00:32:22,800

Maybe this one works.

491

00:32:23,800 --> 00:32:27,800

It seems ginger has made Adam impervious to nausea.

492

00:32:29,800 --> 00:32:34,800

Even the sickening width of Carrie's sneakers has no effect.

493

00:32:36,800 --> 00:32:39,800

I mean, at this point, I'm trying to think of things that are sickening.

494

00:32:39,800 --> 00:32:44,800

Like when you throw up and you can taste it in your nose and you've got to blow it out of your nose, that kind of stuff.

495

00:32:44,800 --> 00:32:46,800

Still not doing anything.

496

00:32:47,800 --> 00:32:51,800

After 25 minutes of thinking sick-inducing thoughts,

497

00:32:51,800 --> 00:32:53,800

it's all smiles for Adam.

498

00:32:54,800 --> 00:32:55,800

Good job.

499

00:32:56,800 --> 00:32:58,800

And the same is true for Grant.

500

00:32:58,800 --> 00:33:01,800

He does a full half hour with no illness at all.

501

00:33:03,800 --> 00:33:06,800

Ginger, at least for these guys, gets the thumbs up.

502

00:33:07,800 --> 00:33:13,800

Next day, it's the final non-pharmaceutical test, the electric stimulation wristband.

503

00:33:14,800 --> 00:33:15,800

God, that feels weird.

504

00:33:15,800 --> 00:33:18,800

I feel it all the way up through my two middle fingers.

505

00:33:18,800 --> 00:33:25,800

Small shocks on the P6 acupuncture point can relieve the effects of seasickness in some sufferers.

506

00:33:25,800 --> 00:33:31,800

It's a newfangled remedy, but for Adam, it's the same old story.

507

00:33:33,800 --> 00:33:34,800

No, we've got to stop.

508

00:33:34,800 --> 00:33:35,800

Stop.

509

00:33:42,800 --> 00:33:44,800

Grant too feels little effect.

510

00:33:45,800 --> 00:33:52,800

It seems that both Adam and Grant are suffering the age-old problem of clinical trials, mind games.

511

00:33:52,800 --> 00:33:55,800

But Jamie has a cunning plan.

512

00:33:55,800 --> 00:33:57,800

Jamie, I've been thinking about this a little bit.

513

00:33:57,800 --> 00:34:01,800

How do we know they're not fooling themselves into believing that the remedies are not working?

514

00:34:01,800 --> 00:34:05,800

There's a tried-and-true and very simple way of dealing with that, and that's called the placebo.

515

00:34:05,800 --> 00:34:13,800

So what we're going to do is give them something that we're going to tell them is an over-the-counter pharmaceutical remedy

516

00:34:13,800 --> 00:34:16,800

that they'll be thinking that if anything works this well,

517

00:34:16,800 --> 00:34:22,800

and what we're actually going to be giving them is something useless like a vitamin or something else.

518

00:34:22,800 --> 00:34:25,800

That's clever. Vitamins are useless?

519

00:34:25,800 --> 00:34:27,800

Well, for seasickness.

520

00:34:31,800 --> 00:34:36,800

So this time, Adam thinks he's taken a regular drug treatment, but in fact, he's had a vitamin.

521

00:34:37,800 --> 00:34:43,800

Will his brain trick his body into believing that this remedy works, or will he get as sick as ever?

522

00:34:44,800 --> 00:34:46,800

Oh, stop, stop.

523

00:34:55,800 --> 00:34:57,800

I hate this sh** chair.

524

00:34:57,800 --> 00:35:01,800

Well, you're looking at three minutes and 35 seconds.

525

00:35:01,800 --> 00:35:06,800

No psychological effects with Adam. What you see is what you get.

526

00:35:06,800 --> 00:35:08,800

But Grant...

527

00:35:08,800 --> 00:35:10,800

Spin me, baby.

528

00:35:13,800 --> 00:35:19,800

Twenty minutes in, and it's this point that Grant usually begs for mercy, but not today.

529

00:35:19,800 --> 00:35:26,800

This is among the most effective, if not the most effective remedy that I've had so far.

530

00:35:27,800 --> 00:35:33,800

He's fallen for the placebo, which means his previous results can no longer be trusted.

531

00:35:33,800 --> 00:35:36,800

What's the result with you on this one, Grant?

532

00:35:36,800 --> 00:35:38,800

I think it works.

533

00:35:38,800 --> 00:35:39,800

You think it works?

534

00:35:39,800 --> 00:35:45,800

I'm feeling like it was trying to do something, but it was just staying down there.

535

00:35:45,800 --> 00:35:49,800

I apologize for this. It wasn't my idea.

536

00:35:50,800 --> 00:35:57,800

But what you just took was B12, was a placebo.

537

00:35:57,800 --> 00:35:59,800

Oh!

538

00:35:59,800 --> 00:36:05,800

At the very moment that Jamie revealed that what we had received was a placebo, my very first thought was, ah, crap.

539

00:36:05,800 --> 00:36:07,800

We have to do this again.

540

00:36:09,800 --> 00:36:13,800

But only once more, today with the real medicinal drug.

541

00:36:13,800 --> 00:36:15,800

And sure enough, it works.

542

00:36:16,800 --> 00:36:25,800

I can definitely feel the pharmaceuticals in my body, and I can feel how they're not quite holding back all the sick feelings.

543

00:36:25,800 --> 00:36:29,800

They're just holding back enough that, you know, I'm functional.

544

00:36:30,800 --> 00:36:32,800

Although not that functional.

545

00:36:33,800 --> 00:36:36,800

Sorry, I actually just fell asleep there for a second.

546

00:36:37,800 --> 00:36:42,800

Seasickness has been a real problem for Adam, but will that still be the case?

547

00:36:43,800 --> 00:36:47,800

After six stomach churning tests, the results are in.

548

00:36:48,800 --> 00:36:54,800

Well, it looks like the pharmaceutical remedy definitely worked on both of you, but you both look a little loopy.

549

00:36:54,800 --> 00:36:57,800

I don't think this is going to be the best working condition.

550

00:36:58,800 --> 00:36:59,800

No?

551

00:36:59,800 --> 00:37:00,800

No.

552

00:37:00,800 --> 00:37:09,800

So did we find a non-pharmaceutical remedy that'll work for either of you that's not going to leave you looking like you guys do?

553

00:37:09,800 --> 00:37:14,800

I think the only thing that really worked without any major side effects was a ginger pill.

554

00:37:14,800 --> 00:37:17,800

The next time I go out on a boat, I'm definitely taking those.

555

00:37:17,800 --> 00:37:19,800

I mean, this is a really hard thing to test.

556

00:37:19,800 --> 00:37:26,800

Seasickness is very individual, but I think that we can pretty much say ginger pills are plausible.

557

00:37:26,800 --> 00:37:28,800

I would agree.

558

00:37:33,800 --> 00:37:37,800

Stay with us as the cartoon caber heads towards calamity.

559

00:37:37,800 --> 00:37:39,800

I think this thing is going to explode right now.

560

00:37:39,800 --> 00:37:40,800

I hope.

561

00:37:47,800 --> 00:37:58,800

Home on the range, the Mythbusters have shown that plugging a shotgun barrel with your fingers will not cause the gun to explosively backfire.

562

00:37:59,800 --> 00:38:01,800

But they're not giving up just yet.

563

00:38:02,800 --> 00:38:10,800

With fingers busted, Tari gets down and dirty with another real life gun obstruction, soil.

564

00:38:10,800 --> 00:38:12,800

Okay, that'll do.

565

00:38:12,800 --> 00:38:16,800

Although how real life this is is debatable.

566

00:38:16,800 --> 00:38:19,800

I think this thing is going to explode right now.

567

00:38:19,800 --> 00:38:20,800

I hope.

568

00:38:20,800 --> 00:38:22,800

I want to see some action.

569

00:38:23,800 --> 00:38:28,800

With eight inches of mud, could this be the real dirty Harry?

570

00:38:28,800 --> 00:38:30,800

In three.

571

00:38:30,800 --> 00:38:33,800

Three, two, one.

572

00:38:37,800 --> 00:38:38,800

It looks good.

573

00:38:38,800 --> 00:38:39,800

Oh!

574

00:38:41,800 --> 00:38:43,800

Now that's a result.

575

00:38:43,800 --> 00:38:44,800

That?

576

00:38:44,800 --> 00:38:45,800

Look at this.

577

00:38:46,800 --> 00:38:48,800

It looks like they've hit pay dirt.

578

00:38:50,800 --> 00:38:55,800

The shooter's fine, but the gun's been soiled.

579

00:38:56,800 --> 00:38:59,800

But not as soiled as they'd hoped.

580

00:38:59,800 --> 00:39:05,800

There's some peeling back, but to get the cartoon banana, they're going to have to go for broke.

581

00:39:06,800 --> 00:39:12,800

So they're abandoning real life scenarios as they prepare to ram a steel spike into the gun.

582

00:39:15,800 --> 00:39:19,800

And this time, they're making sure it's sealed completely shut.

583

00:39:20,800 --> 00:39:25,800

In keeping with the Mythbusters ethos, we have tested the myth, we have busted the myth,

584

00:39:25,800 --> 00:39:28,800

and now we're going to see if we can prove the circumstances.

585

00:39:28,800 --> 00:39:32,800

We've plugged the barrel with the steel spike that we've welded into the end of the barrel.

586

00:39:32,800 --> 00:39:37,800

If anything will make it split like a banana and blow up in the operator's face, it's this.

587

00:39:37,800 --> 00:39:41,800

No one in their right mind would fire a rifle in this configuration.

588

00:39:41,800 --> 00:39:44,800

Please leave this one to the experts.

589

00:39:45,800 --> 00:39:48,800

This time we're going for total annihilation.

590

00:39:49,800 --> 00:39:52,800

In three, two, one.

591

00:39:55,800 --> 00:39:56,800

Something happened.

592

00:39:57,800 --> 00:40:00,800

Something happened, but it was no banana ring.

593

00:40:00,800 --> 00:40:04,800

The gun simply shot the welded spike straight out.

594

00:40:04,800 --> 00:40:08,800

Yeah, but this isn't going to make the cartoon hunter's face turn black and burn his hair off.

595

00:40:08,800 --> 00:40:11,800

No dirt was more interesting than a steel plug.

596

00:40:11,800 --> 00:40:16,800

Granted, we didn't get something dramatic here, but I think this is the most interesting result

597

00:40:16,800 --> 00:40:19,800

because effectively the gun contained the explosion.

598

00:40:20,800 --> 00:40:22,800

That it did.

599

00:40:22,800 --> 00:40:28,800

It seems that modern shotguns are just too strong for this myth.

600

00:40:28,800 --> 00:40:32,800

They're manufactured to withstand banana peeling.

601

00:40:33,800 --> 00:40:38,800

But before busting the myth completely, Jamie has one last trick up his sleeve.

602

00:40:38,800 --> 00:40:42,800

A squib load in a high-powered rifle.

603

00:40:42,800 --> 00:40:46,800

A squib load is a round that has so little gunpowder

604

00:40:46,800 --> 00:40:49,800

that it fails to exit the barrel.

605

00:40:49,800 --> 00:40:54,800

If left unclear, the next bullet can have disastrous consequences.

606

00:40:55,800 --> 00:40:59,800

And disastrous consequences is what this team thrives on.

607

00:41:01,800 --> 00:41:04,800

Jamie's making a myth-busters squib load.

608

00:41:04,800 --> 00:41:07,800

He's carefully removed the metal slug from the round

609

00:41:07,800 --> 00:41:12,800

and is safely hammering it into the end of their carcano rifle.

610

00:41:12,800 --> 00:41:14,800

Do not try this at home.

611

00:41:14,800 --> 00:41:16,800

That ought to do it.

612

00:41:16,800 --> 00:41:18,800

Well, there's a problem.

613

00:41:18,800 --> 00:41:24,800

Grant's remote control doesn't fit the new gun, so they're going with the old-fashioned method.

614

00:41:24,800 --> 00:41:28,800

Carcano rifles squib load in three, two, one.

615

00:41:31,800 --> 00:41:32,800

Woo!

616

00:41:32,800 --> 00:41:33,800

That sounded good, man.

617

00:41:33,800 --> 00:41:35,800

That was no misfire.

618

00:41:35,800 --> 00:41:38,800

No misfire, but was there a banana backfire?

619

00:41:39,800 --> 00:41:40,800

Shooters still intact.

620

00:41:40,800 --> 00:41:41,800

Hey!

621

00:41:41,800 --> 00:41:44,800

Oh, no, that looks pretty good at the end.

622

00:41:44,800 --> 00:41:45,800

What happened to the barrel?

623

00:41:45,800 --> 00:41:47,800

Oh, you got a little bulge.

624

00:41:47,800 --> 00:41:49,800

I definitely bulged it out.

625

00:41:50,800 --> 00:41:55,800

It wasn't exactly the banana peel thing that we're looking for, which seems so hard to achieve.

626

00:41:55,800 --> 00:42:00,800

So hard, it's surely impossible.

627

00:42:01,800 --> 00:42:05,800

Even the squib load refused to blow.

628

00:42:06,800 --> 00:42:09,800

So can anything cause the banana ring.

629

00:42:09,800 --> 00:42:13,800

I don't want to count our chickens before they hatch, but I think we may end up revisiting this one.

630

00:42:14,800 --> 00:42:16,800

A revisit may indeed beckon.

631

00:42:16,800 --> 00:42:19,800

But for now, that's all, folks.

632

00:42:19,800 --> 00:42:20,800

You know, it's funny.

633

00:42:20,800 --> 00:42:26,800

No matter how long I do this, I never cease to be amazed that there's an element of truth in everything we test.

634

00:42:26,800 --> 00:42:31,800

The fact that a finger in a barrel can provide enough blockage to make the barrel blow out?

635

00:42:31,800 --> 00:42:33,800

I mean, it's steel.

636

00:42:33,800 --> 00:42:34,800

Your fingers flesh.

637

00:42:34,800 --> 00:42:37,800

I would not have called that if it caught me by surprise.

638

00:42:37,800 --> 00:42:39,800

The finger got blown off of both of the hands.

639

00:42:39,800 --> 00:42:41,800

Both hands got blown off.

640

00:42:41,800 --> 00:42:45,800

But we still didn't get that effect that we're looking for, the banana peeling of the barrel.

641

00:42:45,800 --> 00:42:49,800

And the shooter was never damaged or covered with powder burns or anything.

642

00:42:49,800 --> 00:42:57,800

The whole idea of this myth that you could stick your finger in a barrel, remain undamaged while the barrel blew up and the shooter was covered with gunpowder.

643

00:42:58,800 --> 00:43:00,800

Absolutely bust.

644

00:43:00,800 --> 00:43:01,800

I'll agree with you.

645

00:43:01,800 --> 00:43:04,800

Remember, don't try this unless you're a cartoon.