

1

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

On this episode...

2

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

I'm so traumatized right now.

3

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

The mythbusters have Hollywood in their sights.

4

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

You've seen it a million times,

5

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

but can you really beat blown away by a bullet?

6

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

Nicely done, Tori!

7

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

It's a song sung brown.

8

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

You gotta take your pants off.

9

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

As Adam searches high and low

10

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

for the elusive, bell-loosening tone.

11

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

And water torture.

12

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

Is it real?

13

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

And how long can the mythbusters take it?

14

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

Oh, oh my god!

15

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

Who are the mythbusters?

16

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

Am I missing an eyebrow?

17

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

Adam Savage.

18

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

I reject the reality and substitute my own.

19

00:00:46,000 --> 00:00:47,000

And Jamie Heineman.

20

00:00:47,000 --> 00:00:48,000

Crack, damn you.

21

00:00:48,000 --> 00:00:50,000

I wouldn't say Jamie's an evil genius.

22

00:00:50,000 --> 00:00:55,000

Between them, more than 30 years special effects experience.

23

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

When will the fun ever stop?

24

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

They don't just tell the myths.

25

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

They put them to the test.

26

00:01:09,000 --> 00:01:11,000

In an urban wasteland,

27

00:01:11,000 --> 00:01:15,000

a deadly game of cat and mouse is being played out.

28

00:01:17,000 --> 00:01:20,000

A lone gunman stalks his prey.

29

00:01:28,000 --> 00:01:31,000

A fugitive flees for his life.

30

00:01:35,000 --> 00:01:38,000

But this time, there's no escape.

31

00:01:44,000 --> 00:01:47,000

Tori, Jamie and I have a really, really fun myth

32

00:01:47,000 --> 00:01:49,000

to pass on to you this time.

33

00:01:49,000 --> 00:01:52,000

Yeah, this one is another Hollywood created myth.

34

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

And it's the one around a person getting shot

35

00:01:55,000 --> 00:01:57,000

and like flying backwards.

36

00:01:57,000 --> 00:01:59,000

So the question is,

37

00:01:59,000 --> 00:02:01,000

does a bullet have enough kinetic energy

38

00:02:01,000 --> 00:02:04,000

to transfer to a person that would like knock them back?

39

00:02:04,000 --> 00:02:06,000

Whether or not they're wearing like a bulletproof vest

40

00:02:06,000 --> 00:02:09,000

or something, just like we see in the movies.

41

00:02:09,000 --> 00:02:13,000

We'll show you later how Hollywood blows people away.

42

00:02:13,000 --> 00:02:16,000

But first, the big test.

43

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

Can this really happen?

44

00:02:18,000 --> 00:02:20,000

We need to come up with a realistic recreation

45

00:02:20,000 --> 00:02:22,000

of what would happen with a person

46

00:02:22,000 --> 00:02:24,000

and a real weapon.

47

00:02:24,000 --> 00:02:27,000

Obviously, they aren't going to shoot a real person.

48

00:02:27,000 --> 00:02:29,000

So here's the idea.

49

00:02:29,000 --> 00:02:33,000

Build a large rack to hold up a victim it's safe to shoot.

50

00:02:33,000 --> 00:02:37,000

A pre-deceased victim with human-like physiology.

51

00:02:37,000 --> 00:02:41,000

A recently departed pig will be perfect.

52

00:02:44,000 --> 00:02:46,000

Are we ready to roll?

53

00:02:47,000 --> 00:02:50,000

And so it's once more fun.

54

00:02:52,000 --> 00:02:55,000

We're off to the meatworks for a quick pork takeout.

55

00:02:55,000 --> 00:02:57,000

Though it was never going to be quick enough

56

00:02:57,000 --> 00:02:59,000

for vegetarian carry.

57

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

I'm so traumatized right now.

58

00:03:05,000 --> 00:03:09,000

So now to make pigs fly backwards.

59

00:03:12,000 --> 00:03:15,000

Scotty and Tori get to work on the pig rig.

60

00:03:15,000 --> 00:03:19,000

This is our harness, basically, that's going to hold the pig up.

61

00:03:19,000 --> 00:03:21,000

We're going to put its hooves,

62

00:03:21,000 --> 00:03:23,000

dig the hooks into the hooves,

63

00:03:23,000 --> 00:03:25,000

and then this will hang from our rig.

64

00:03:27,000 --> 00:03:31,000

There doesn't seem to be anything this girl can't do

65

00:03:31,000 --> 00:03:33,000

with a welding mask and a blue flag.

66

00:03:33,000 --> 00:03:36,000

I think it's going to hold up a 180-pound pig.

67

00:03:36,000 --> 00:03:38,000

Hey, can you do a 360?

68

00:03:38,000 --> 00:03:39,000

Making a swing set?

69

00:03:39,000 --> 00:03:40,000

Yeah.

70

00:03:42,000 --> 00:03:45,000

The harness needs to hang right on the edge of the hook

71

00:03:45,000 --> 00:03:48,000

so that any pressure will dislodge it.

72

00:03:49,000 --> 00:03:58,000

I saw you punch yourself in the head.

73

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

It's so bad.

74

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

I'm sorry I'm laughing,

75

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

but you just punched yourself right in the head.

76

00:04:08,000 --> 00:04:09,000

Can I look at that tape?

77

00:04:12,000 --> 00:04:14,000

Out on the shooting range,

78

00:04:14,000 --> 00:04:16,000

Carrie's still not in hog heaven.

79

00:04:16,000 --> 00:04:20,000

I'm a vegetarian city girl from California.

80

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

I didn't have a chance.

81

00:04:22,000 --> 00:04:25,000

It's okay, Carrie, the pigs were vegetarians too.

82

00:04:27,000 --> 00:04:29,000

In fact, they need a little fattening up

83

00:04:29,000 --> 00:04:32,000

to make the 180 pounds wanted for the test.

84

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

We want pretty much an identical mask to a human

85

00:04:35,000 --> 00:04:38,000

to really see what the effect of the bullet would be

86

00:04:38,000 --> 00:04:39,000

and if it throws it back.

87

00:04:39,000 --> 00:04:41,000

Hold on, here, let the legs fold over.

88

00:04:41,000 --> 00:04:43,000

What does it say?

89

00:04:43,000 --> 00:04:44,000

150 pounds.

90

00:04:45,000 --> 00:04:46,000

150 pounds.

91

00:04:46,000 --> 00:04:48,000

I think we've got some 10-pound sandbags.

92

00:04:48,000 --> 00:04:51,000

We could just toss one or two at his neck

93

00:04:51,000 --> 00:04:54,000

to add a little bit more of that central mass,

94

00:04:54,000 --> 00:04:56,000

make it more like the average person,

95

00:04:56,000 --> 00:04:59,000

because the 98th percentile male

96

00:04:59,000 --> 00:05:02,000

that they do all their crash testing with is 180 pounds.

97

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

The pig is finally balanced to within an oink of falling off.

98

00:05:10,000 --> 00:05:12,000

That's what you want, is the carabiner.

99

00:05:12,000 --> 00:05:13,000

That's beautiful.

100

00:05:13,000 --> 00:05:14,000

Okay.

101

00:05:14,000 --> 00:05:16,000

That's the cue for our expert marksman.

102

00:05:16,000 --> 00:05:19,000

Sergeant Alan Normandy on the right

103

00:05:19,000 --> 00:05:21,000

is Chief Firearms Instructor

104

00:05:21,000 --> 00:05:24,000

at the South San Francisco Police Department.

105

00:05:24,000 --> 00:05:27,000

He used to be a SWAT sniper team leader,

106

00:05:27,000 --> 00:05:29,000

which means the pig jokes stop now.

107

00:05:29,000 --> 00:05:31,000

What do you think when you watch the movies

108

00:05:31,000 --> 00:05:33,000

and you see people getting blown through the door

109

00:05:33,000 --> 00:05:34,000

and stuff like that?

110

00:05:34,000 --> 00:05:37,000

Does that equate to reality in any way?

111

00:05:37,000 --> 00:05:39,000

Well, in light of what we're shooting at,

112

00:05:39,000 --> 00:05:41,000

I'd say it's a complete hogwash.

113

00:05:41,000 --> 00:05:43,000

Alan may make the jokes.

114

00:05:43,000 --> 00:05:45,000

After all, he has the guns.

115

00:05:45,000 --> 00:05:48,000

And quite an impressive array of weapons it is, too.

116

00:05:48,000 --> 00:05:50,000

Okay, over here starting on the left,

117

00:05:50,000 --> 00:05:54,000

we have here is a Remington 700 308 sniper rifle

118

00:05:54,000 --> 00:05:56,000

from the police department.

119

00:05:56,000 --> 00:05:58,000

Over here we have a 12-gauge shotgun,

120

00:05:58,000 --> 00:06:00,000

some Mossberg 9200 and semi-automatic.

121

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

We have a Colt M4 in .223.

122

00:06:04,000 --> 00:06:07,000

We also have another Colt M4 in .223.

123

00:06:07,000 --> 00:06:11,000

We also have a Thompson submachine gun in .45 caliber

124

00:06:11,000 --> 00:06:13,000

and an MP5 in 9mm.

125

00:06:13,000 --> 00:06:15,000

This is a, it looks like a pretty good cross-sampling

126

00:06:15,000 --> 00:06:17,000

of like the types of guns you see people

127

00:06:17,000 --> 00:06:19,000

get shot with in the movies.

128

00:06:19,000 --> 00:06:21,000

Absolutely. This is the sort of stuff you'd probably encounter

129

00:06:21,000 --> 00:06:23,000

in most police arsenals.

130

00:06:23,000 --> 00:06:26,000

The shots will be taken from 22 feet away.

131

00:06:26,000 --> 00:06:29,000

Statistics show that 70% of all fatal shootings

132

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

happen at that distance.

133

00:06:31,000 --> 00:06:34,000

But first, we gotta take steps to make sure

134

00:06:34,000 --> 00:06:37,000

we don't add to those stats.

135

00:06:37,000 --> 00:06:40,000

First of all, we're gonna treat all guns as if loaded.

136

00:06:40,000 --> 00:06:42,000

Every single gun's gonna be treated as if it's loaded.

137

00:06:42,000 --> 00:06:45,000

Two is we're not gonna point the firearm or weapon

138

00:06:45,000 --> 00:06:47,000

at anything that we're not willing to destroy.

139

00:06:47,000 --> 00:06:49,000

Three, we're gonna keep the fingers off the trigger

140

00:06:49,000 --> 00:06:51,000

until we're actually ready to fire.

141

00:06:51,000 --> 00:06:53,000

And then fourth of course, we have two rangemasters here

142

00:06:53,000 --> 00:06:56,000

and that is don't anticipate any range commands

143

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

and if you see anything unsafe, please report it to the rangemaster.

144

00:06:58,000 --> 00:07:02,000

Unsafe? How about Adam with a gun?

145

00:07:02,000 --> 00:07:05,000

We already know he's no marksman.

146

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

Did I even hit it? Over the top.

147

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

Over the top? That's pretty lame.

148

00:07:10,000 --> 00:07:12,000

Another round.

149

00:07:12,000 --> 00:07:14,000

Adam will take the first shot.

150

00:07:14,000 --> 00:07:18,000

The M4 is loaded with a 9mm hollow point bullet.

151

00:07:18,000 --> 00:07:20,000

All you need to do is squeeze it when you're ready

152

00:07:20,000 --> 00:07:22,000

so keep your finger off the trigger until you're ready to shoot.

153

00:07:22,000 --> 00:07:24,000

Lean forward just a little bit.

154

00:07:24,000 --> 00:07:26,000

Excuse me, you're in full auto right now.

155

00:07:26,000 --> 00:07:27,000

There you go.

156

00:07:27,000 --> 00:07:29,000

Squeeze slowly.

157

00:07:29,000 --> 00:07:31,000

There you go. Wow.

158

00:07:31,000 --> 00:07:34,000

And what do you know? A direct hit.

159

00:07:34,000 --> 00:07:37,000

Go ahead and put it back on S.

160

00:07:37,000 --> 00:07:40,000

But wait a second, the pig hardly flinched.

161

00:07:40,000 --> 00:07:45,000

Surely the appropriate Hollywood style reaction is more like this.

162

00:07:50,000 --> 00:07:52,000

Did you, I mean I didn't see anything move.

163

00:07:52,000 --> 00:07:54,000

Did the crucks move at all? Hardly at all.

164

00:07:54,000 --> 00:07:55,000

Yeah.

165

00:07:55,000 --> 00:07:58,000

A little bit but that could have been a fly that landed on it.

166

00:07:58,000 --> 00:08:00,000

It's a setback all right.

167

00:08:00,000 --> 00:08:03,000

Maybe what they need is something with a little more power

168

00:08:03,000 --> 00:08:06,000

like say a Thompson submachine gun.

169

00:08:15,000 --> 00:08:19,000

The .45 caliber bullet leaves the carcass unmoved.

170

00:08:19,000 --> 00:08:22,000

I think we just need to keep on moving up higher through the calibers.

171

00:08:22,000 --> 00:08:23,000

Yeah.

172

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

This is a .44 magnum.

173

00:08:25,000 --> 00:08:29,000

We're going to be shooting a 240 grain bullet out of it.

174

00:08:29,000 --> 00:08:32,000

This is the same caliber that Dirty Harry uses in the movies.

175

00:08:32,000 --> 00:08:36,000

In Dirty Harry's movies, people were blown away by the dozen.

176

00:08:36,000 --> 00:08:39,000

Maybe this will get the bacon bouncing.

177

00:08:39,000 --> 00:08:41,000

Finger off the trigger until you're ready to fire.

178

00:08:41,000 --> 00:08:43,000

High speed's ready.

179

00:08:45,000 --> 00:08:50,000

At impact, the bullet is traveling at 1300 feet per second.

180

00:08:50,000 --> 00:08:54,000

But the high speed camera shows the pig hardly flinched.

181

00:08:54,000 --> 00:08:56,000

That went right through again.

182

00:08:56,000 --> 00:08:58,000

No movement at all.

183

00:08:58,000 --> 00:09:00,000

I think we can start to move a little faster with this.

184

00:09:00,000 --> 00:09:02,000

I want to see some actual action on this.

185

00:09:02,000 --> 00:09:05,000

Action Adam wants. Action Adam gets.

186

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

Bye.

187

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

Nope. Back on save.

188

00:09:10,000 --> 00:09:11,000

There you go.

189

00:09:12,000 --> 00:09:15,000

Each weapon is more powerful than the last.

190

00:09:15,000 --> 00:09:18,000

It's the same sort of bullet they use in the M-60 machine gun.

191

00:09:18,000 --> 00:09:21,000

You remember Rambo in the first movie where you got that belt fed machine gun?

192

00:09:21,000 --> 00:09:22,000

Yeah.

193

00:09:22,000 --> 00:09:23,000

This is the same cartridge.

194

00:09:23,000 --> 00:09:26,000

Rambo. Now he could send the bad guys flying.

195

00:09:29,000 --> 00:09:36,000

Still, the pig refuses to fly like a hapless Hollywood fall guy.

196

00:09:36,000 --> 00:09:38,000

I think we're hitting the pig in the perfect spot.

197

00:09:38,000 --> 00:09:41,000

I mean, this is where the highest concentration of his mass is.

198

00:09:41,000 --> 00:09:44,000

You couldn't ask for better and it's not moving at all.

199

00:09:44,000 --> 00:09:47,000

But some of the rounds have passed right through the target.

200

00:09:47,000 --> 00:09:48,000

Come on.

201

00:09:48,000 --> 00:09:51,000

That means most of the bullet's energy is being expended,

202

00:09:51,000 --> 00:09:54,000

not in the body, but in the hillside behind.

203

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

Last chance.

204

00:09:58,000 --> 00:10:03,000

A massive solid deer slug fired from a shotgun.

205

00:10:05,000 --> 00:10:06,000

Yeah!

206

00:10:06,000 --> 00:10:07,000

Hey!

207

00:10:07,000 --> 00:10:08,000

Woo!

208

00:10:08,000 --> 00:10:09,000

Got some movement.

209

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

Oh, finally.

210

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

At last, the pig's off the hook.

211

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

But let's compare with the ideal swan dive.

212

00:10:17,000 --> 00:10:18,000

Not even close.

213

00:10:18,000 --> 00:10:22,000

And Adam's not convinced the shotgun was really the cause anyway.

214

00:10:23,000 --> 00:10:25,000

It just sort of fell down.

215

00:10:25,000 --> 00:10:29,000

Yeah, it actually looked like it hit the hip bone and the legs spread.

216

00:10:29,000 --> 00:10:32,000

And then that caused the jostling that pulled it off the hook.

217

00:10:32,000 --> 00:10:34,000

But it definitely didn't move back very far.

218

00:10:34,000 --> 00:10:35,000

No.

219

00:10:35,000 --> 00:10:37,000

So the swine has got the better of them.

220

00:10:37,000 --> 00:10:39,000

They couldn't blow them away like in the movies.

221

00:10:39,000 --> 00:10:40,000

None of the bullies.

222

00:10:40,000 --> 00:10:42,000

It's time to switch to plan B.

223

00:10:42,000 --> 00:10:46,000

And B stands for Bad News for Buster.

224

00:10:46,000 --> 00:10:49,000

Buster's going to take 1.15 yet again.

225

00:10:53,000 --> 00:10:59,000

The Mythbusters are heading into a world of hurts.

226

00:10:59,000 --> 00:11:03,000

24 speakers, \$60,000 worth of sound equipment.

227

00:11:03,000 --> 00:11:05,000

They're putting their dignity on the line.

228

00:11:05,000 --> 00:11:08,000

14 adults wearing diapers.

229

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

To uncover the most diabolical secret weapon you've never heard of.

230

00:11:13,000 --> 00:11:16,000

Mythbusters is testing the brown nose.

231

00:11:17,000 --> 00:11:23,000

So what are we doing out here in the middle of an empty, windswept parking lot?

232

00:11:23,000 --> 00:11:29,000

Well, it turns out you need a big place like this to test the myth of the brown note.

233

00:11:29,000 --> 00:11:33,000

That's the myth that there are subsonic frequencies that you can play

234

00:11:33,000 --> 00:11:36,000

that will cause a human being to lose control of their bowels

235

00:11:36,000 --> 00:11:41,000

or, as they say in the industry, have involuntary bowel motility.

236

00:11:42,000 --> 00:11:44,000

The brown note.

237

00:11:44,000 --> 00:11:47,000

A mysterious sound that makes you soil your pants.

238

00:11:47,000 --> 00:11:52,000

Or worse, conspiracy theories dating back to the Second World War

239

00:11:52,000 --> 00:11:59,000

claim shady government types were secretly researching this stuff for all sorts of no good.

240

00:11:59,000 --> 00:12:06,000

Sure enough, in no time, Adam has tracked down some so-called audio weapons on the Internet.

241

00:12:11,000 --> 00:12:14,000

The device is a moderate source of ultrasonic sound

242

00:12:14,000 --> 00:12:19,000

and may sometimes be used to discourage a potential hostile encounter.

243

00:12:19,000 --> 00:12:22,000

However, we do not recommend this particular use

244

00:12:22,000 --> 00:12:27,000

since it may provoke certain individuals, then discourage them.

245

00:12:27,000 --> 00:12:31,000

I was going to rob you, but now I'm going to rob you, then kill you.

246

00:12:31,000 --> 00:12:35,000

Soon enough, the rest of the team want to kill Adam too.

247

00:12:42,000 --> 00:12:45,000

What?

248

00:12:45,000 --> 00:12:47,000

Make one go away.

249

00:12:47,000 --> 00:12:49,000

Make one go away.

250

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

That's sound. I can hear it.

251

00:12:51,000 --> 00:12:54,000

You don't hear that? It's like a dog whistle. It's like...

252

00:12:54,000 --> 00:12:59,000

Interestingly, after an hour of fooling around with these things,

253

00:12:59,000 --> 00:13:01,000

Adam's not feeling so great.

254

00:13:01,000 --> 00:13:03,000

I feel like crap.

255

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

I mean, I've got a kind of cold sweat.

256

00:13:07,000 --> 00:13:10,000

My head feels like it's got kind of pressure in it.

257

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

I mean, it's really incredibly effective.

258

00:13:14,000 --> 00:13:20,000

It's those sort of feelings the conspiracy theorists say the government really wants to tap into.

259

00:13:20,000 --> 00:13:23,000

And according to the myth, get the frequency right

260

00:13:23,000 --> 00:13:28,000

and the vibrations hitting your body might also cause nausea, confusion,

261

00:13:28,000 --> 00:13:32,000

and the aforementioned loss of bowel control.

262

00:13:33,000 --> 00:13:38,000

We get contacted almost every year by one of the military organizations

263

00:13:38,000 --> 00:13:40,000

to participate in such a program.

264

00:13:40,000 --> 00:13:44,000

If anyone could build a brown-note speaker, it's John Meyer.

265

00:13:44,000 --> 00:13:48,000

His company is a world leader in concert acoustics.

266

00:13:48,000 --> 00:13:54,000

Meyer sound acoustician Roger Schwenke helped bust the myth that duck's quacks don't echo.

267

00:13:54,000 --> 00:13:59,000

I'll tell you guys to be quiet because any sound will start the computer recording

268

00:13:59,000 --> 00:14:03,000

and then you need to silently induce the duck to quack.

269

00:14:03,000 --> 00:14:05,000

Quack?

270

00:14:05,000 --> 00:14:08,000

Roger, from everything you've read, what is the brown note?

271

00:14:08,000 --> 00:14:11,000

Like, what is the range at which it's supposed to happen?

272

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

I've seen reports of this phenomenon happening at 9 hertz.

273

00:14:17,000 --> 00:14:20,000

I've seen a couple saying 7 and 8.

274

00:14:20,000 --> 00:14:26,000

I've also heard 5 and all of those frequencies are below the human hearing range.

275

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

And we're prepared to test all those frequencies today?

276

00:14:29,000 --> 00:14:30,000

Oh, yes.

277

00:14:30,000 --> 00:14:32,000

Sound is just vibrations.

278

00:14:32,000 --> 00:14:37,000

The speed of the vibrations is called the frequency and measured in hertz.

279

00:14:37,000 --> 00:14:40,000

One vibration per second equals one hertz.

280

00:14:40,000 --> 00:14:44,000

People can't hear sounds much lower than 20 hertz,

281

00:14:44,000 --> 00:14:47,000

but the brown note is set to fall below 10.

282

00:14:47,000 --> 00:14:49,000

Well, now you said these speakers are modified.

283

00:14:49,000 --> 00:14:51,000

These are not off the shelf.

284

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

Do you have a catalog entry for the brown note subwoofer?

285

00:14:54,000 --> 00:15:00,000

No, these speakers were originally part of a concert system.

286

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

And what we did is we modified them for this experiment.

287

00:15:04,000 --> 00:15:07,000

Normally our speakers don't go below 20 cycles.

288

00:15:07,000 --> 00:15:11,000

So these were modified to go down to 5 hertz.

289

00:15:11,000 --> 00:15:13,000

So the plan is simple.

290

00:15:13,000 --> 00:15:18,000

Array specially modified speakers around the subject and hit them with tones

291

00:15:18,000 --> 00:15:22,000

until the brown note rears its ugly head.

292

00:15:25,000 --> 00:15:29,000

24 speakers, 25,000 watts.

293

00:15:29,000 --> 00:15:32,000

Now this is surround sound.

294

00:15:32,000 --> 00:15:37,000

This could quite easily be the complete subwoofer system for a large toying rock show.

295

00:15:37,000 --> 00:15:40,000

And we'll be like a couple of feet away from it.

296

00:15:40,000 --> 00:15:43,000

Yes, it'll all be aimed directly at you.

297

00:15:43,000 --> 00:15:46,000

You have stuff to both drive and monitor the speakers

298

00:15:46,000 --> 00:15:48,000

so that we know we're exactly in the right hertz range.

299

00:15:48,000 --> 00:15:55,000

Yes, we'll be generating those frequencies and measuring the sound pressure level and frequency.

300

00:15:55,000 --> 00:15:57,000

Oh, we brought we're diapers.

301

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

Good.

302

00:16:02,000 --> 00:16:05,000

So the experts have the technology taken care of.

303

00:16:05,000 --> 00:16:09,000

Now who wants to go potty on national TV?

304

00:16:09,000 --> 00:16:13,000

I would love to volunteer for this sort of thing.

305

00:16:13,000 --> 00:16:17,000

I mean I've stood in front of big speakers at like a big concert and stuff

306

00:16:17,000 --> 00:16:21,000

and I love that way it feels, that like overpowering thing.

307

00:16:21,000 --> 00:16:26,000

And I can't imagine anything better than getting in the middle of this 25,000 watt stack and seeing what it does.

308

00:16:26,000 --> 00:16:31,000

And since I'm notorious for maintaining my cleanliness and under all conditions

309

00:16:31,000 --> 00:16:33,000

maybe it'd be best to try you.

310

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

Okay.

311

00:16:35,000 --> 00:16:40,000

A medical team will constantly monitor Adam's physical signs

312

00:16:40,000 --> 00:16:42,000

and they're prepared for the worst.

313

00:16:42,000 --> 00:16:47,000

Have you actually heard the story that there is a tone that can make you lose control of your bowels?

314

00:16:47,000 --> 00:16:51,000

Whether it's a change of pressure in your bowels or some other kind of neurological response

315

00:16:51,000 --> 00:16:56,000

that has been said that the military used it, that people will lose their bowels at a certain tone.

316

00:16:56,000 --> 00:16:58,000

Okay, ready when you are.

317

00:16:58,000 --> 00:17:02,000

But remember, the brown note is also said to induce confusion.

318

00:17:02,000 --> 00:17:06,000

So Christine has devised a simple test to monitor that.

319

00:17:06,000 --> 00:17:10,000

The idea of the puzzle is that you know if he stands in front of the sound waves

320

00:17:10,000 --> 00:17:13,000

and the sound waves cause confusion, which is what we've heard they do

321

00:17:13,000 --> 00:17:15,000

it'll take him longer to do the puzzle.

322

00:17:15,000 --> 00:17:19,000

So it takes him half an hour now and two hours later

323

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

and you'll know there's a big difference.

324

00:17:21,000 --> 00:17:22,000

Okay.

325

00:17:22,000 --> 00:17:24,000

Alright.

326

00:17:24,000 --> 00:17:26,000

Five minutes and ten seconds.

327

00:17:26,000 --> 00:17:27,000

Alright.

328

00:17:27,000 --> 00:17:28,000

Adam, you want to go on into place?

329

00:17:28,000 --> 00:17:29,000

I'm ready.

330

00:17:29,000 --> 00:17:30,000

Alright.

331

00:17:30,000 --> 00:17:32,000

So everything is ready to go.

332

00:17:32,000 --> 00:17:34,000

The speakers are in position.

333

00:17:34,000 --> 00:17:37,000

Adam's physical baseline state has been tested.

334

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

Now just one last precaution.

335

00:17:41,000 --> 00:17:45,000

Adam, it's time for you to put your diaper on.

336

00:17:45,000 --> 00:17:49,000

I thought I didn't have to do that until the end of the day.

337

00:17:49,000 --> 00:17:50,000

Oh my god.

338

00:17:50,000 --> 00:17:52,000

Well what are you doing?

339

00:17:52,000 --> 00:17:54,000

It's not going to do any good out there.

340

00:17:54,000 --> 00:17:56,000

You got to take your pants off and wear them.

341

00:17:56,000 --> 00:17:57,000

Nope.

342

00:17:57,000 --> 00:17:58,000

Nope.

343

00:17:58,000 --> 00:17:59,000

What do you think?

344

00:17:59,000 --> 00:18:00,000

It's you.

345

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

It's all the, it's going to be all the rage.

346

00:18:02,000 --> 00:18:04,000

Yeah, you know Jamie it is an omnidirectional signal.

347

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

I think you and you the cameraman are going to have to put it on too.

348

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

Then everybody has to wear one.

349

00:18:10,000 --> 00:18:11,000

Alright.

350

00:18:15,000 --> 00:18:17,000

Oh, that's really uncomfortable.

351

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

Right then the team made a solemn pact.

352

00:18:20,000 --> 00:18:23,000

This moment would never be spoken of again.

353

00:18:23,000 --> 00:18:26,000

No, you can't hide them on the chair.

354

00:18:26,000 --> 00:18:33,000

And now Adam stands ready to face the sweet, mysterious music of the brown note.

355

00:18:33,000 --> 00:18:35,000

Alright guys, I'm ready when you are.

356

00:18:35,000 --> 00:18:39,000

So either put your hearing protection on or get out here at this distance.

357

00:18:39,000 --> 00:18:41,000

I feel pretty relaxed.

358

00:18:41,000 --> 00:18:45,000

I'm looking forward to seeing how I respond to all this stuff.

359

00:18:45,000 --> 00:18:47,000

And five.

360

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

So Jamie is going to be controlling this.

361

00:18:49,000 --> 00:18:54,000

Four, three, two, one.

362

00:19:01,000 --> 00:19:05,000

Right now conspiracy theorists are on the edge of their seats.

363

00:19:05,000 --> 00:19:08,000

Adam is being blasted with a five Hertz tone.

364

00:19:08,000 --> 00:19:14,000

And if there was a second shooter on the grassy knoll and man never really walked on the moon.

365

00:19:14,000 --> 00:19:20,000

Well, this brown note secret weapon should have him pooping his pants any second now.

366

00:19:20,000 --> 00:19:25,000

Note the diaper worn Superman style just in case.

367

00:19:25,000 --> 00:19:30,000

Four, three, two, one.

368

00:19:34,000 --> 00:19:37,000

Now don't be fooled because you can't hear anything.

369

00:19:37,000 --> 00:19:43,000

Remember, five Hertz is well below the frequency the human ear can pick up.

370

00:19:43,000 --> 00:19:46,000

But that sound wave is packing a punch.

371

00:19:46,000 --> 00:19:50,000

It's thumping out at a powerful 108 decibels.

372

00:19:50,000 --> 00:19:53,000

A rock concert is about 110.

373

00:19:53,000 --> 00:19:57,000

A normal conversation is about 60 decibels.

374

00:19:57,000 --> 00:20:01,000

Even so, Adam seems, uh, unmoved.

375

00:20:01,000 --> 00:20:03,000

I don't really feel anything.

376

00:20:03,000 --> 00:20:05,000

My heart rate's about the same.

377

00:20:05,000 --> 00:20:07,000

Can I do the puzzle?

378

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

Sort of psychedelic somehow.

379

00:20:11,000 --> 00:20:14,000

There's so many of these speakers going like this.

380

00:20:14,000 --> 00:20:17,000

You just want to, it's sort of hypnotic.

381

00:20:17,000 --> 00:20:19,000

God.

382

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

I'm going to say 59 seconds.

383

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

I would definitely say that was an improvement.

384

00:20:23,000 --> 00:20:30,000

And I felt much more of a physical response to like a really loud speaker at a concert than I did from this.

385

00:20:30,000 --> 00:20:34,000

So Adam's bells are more than a match for five Hertz.

386

00:20:34,000 --> 00:20:37,000

The Meyer sound guys have a search on their hands.

387

00:20:37,000 --> 00:20:39,000

Okay, Adam.

388

00:20:39,000 --> 00:20:44,000

It's going to be seven Hertz at 114 dB.

389

00:20:44,000 --> 00:20:49,000

Okay. Three, two, one.

390

00:20:53,000 --> 00:20:55,000

Is that all you got?

391

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

Again, the silence is deafening.

392

00:20:58,000 --> 00:21:01,000

And there's certainly no noise from Adam's nether regions.

393

00:21:02,000 --> 00:21:04,000

Feel like you want to poo?

394

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

I can't say I want to poo.

395

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

Or I can't say that I'm going to poo involuntarily.

396

00:21:10,000 --> 00:21:15,000

Well, if that's not a goal worthy of the Mythbusters time, they don't know what is.

397

00:21:15,000 --> 00:21:19,000

Adam's confident their next test will strike paydirt.

398

00:21:19,000 --> 00:21:27,000

Next up, nine Hertz right within the mystical, mythical brown note butter zone.

399

00:21:27,000 --> 00:21:28,000

Okay, are we ready?

400

00:21:28,000 --> 00:21:29,000

Yep.

401

00:21:29,000 --> 00:21:30,000

Let's do it. You ready, Adam?

402

00:21:30,000 --> 00:21:32,000

Ready when you are.

403

00:21:32,000 --> 00:21:38,000

Okay. And three, two, one, go.

404

00:21:50,000 --> 00:21:52,000

This is nine Hertz, right?

405

00:21:52,000 --> 00:21:58,000

So we should be right where I should just be like all over myself.

406

00:21:58,000 --> 00:22:01,000

You know, this is sometimes called the disco dump.

407

00:22:01,000 --> 00:22:04,000

So can you like disco for us?

408

00:22:06,000 --> 00:22:07,000

It's a dump spot, baby.

409

00:22:09,000 --> 00:22:11,000

No, nothing there.

410

00:22:11,000 --> 00:22:12,000

Wait, wait, let's see.

411

00:22:14,000 --> 00:22:15,000

Nope, nothing.

412

00:22:16,000 --> 00:22:17,000

You can feel the vibration.

413

00:22:17,000 --> 00:22:22,000

It's pretty impressive, but it's not like, you know, like it's out of control,

414

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

shaking your body until something comes out of it.

415

00:22:25,000 --> 00:22:30,000

Some secret weapon this is turning out to be, but here's something interesting.

416

00:22:30,000 --> 00:22:33,000

There seems to be a little collateral damage going on.

417

00:22:33,000 --> 00:22:35,000

Physically, I did feel anxiety.

418

00:22:35,000 --> 00:22:40,000

I didn't feel any mental or emotional anxiety, but physically I felt something definitely in my chest area.

419

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

Physically, I feel something in my chest.

420

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

I don't feel like sitting down.

421

00:22:46,000 --> 00:22:48,000

I feel like I have to move around.

422

00:22:48,000 --> 00:22:51,000

Even John Myers feeling the effects.

423

00:22:51,000 --> 00:22:53,000

He hasn't built speakers like these before.

424

00:22:53,000 --> 00:22:59,000

I started feeling a little nauseous right away, like upset stomach and kind of lightheaded.

425

00:22:59,000 --> 00:23:02,000

So I walked away from the thing, felt a little bit dizzy.

426

00:23:02,000 --> 00:23:07,000

This graphic representation of the sound wave helps explain what's going on.

427

00:23:07,000 --> 00:23:15,000

Adam is right in the center of the stacks, but that wave is rolling out to weave its magic on the whole team.

428

00:23:15,000 --> 00:23:21,000

If there are any elephants within 10 miles of here, they're going nuts right now.

429

00:23:21,000 --> 00:23:26,000

They use subsonic sound to communicate over long distances.

430

00:23:26,000 --> 00:23:29,000

But the subject of this secret sonic attack?

431

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

Well, he's never been better.

432

00:23:31,000 --> 00:23:34,000

Okay, you're coming up on a minute here.

433

00:23:34,000 --> 00:23:38,000

One minute and 32 seconds.

434

00:23:38,000 --> 00:23:43,000

I think these low sound waves are actually improving your cognitive ability.

435

00:23:43,000 --> 00:23:44,000

Where do we go from here?

436

00:23:44,000 --> 00:23:50,000

We're going to run a 32 cycle fundamental note, which is like one of the notes on a pipe organ,

437

00:23:50,000 --> 00:23:52,000

and run at about 128.

438

00:23:52,000 --> 00:24:01,000

32 hertz, that's up into the audible range, at an ear splitting 128 decibels, as loud as a jackhammer.

439

00:24:01,000 --> 00:24:05,000

Now you're just going to have to give me hand signals because I can't hear a damn thing.

440

00:24:05,000 --> 00:24:07,000

Okay, let's do it.

441

00:24:16,000 --> 00:24:18,000

Can you read this?

442

00:24:20,000 --> 00:24:22,000

No, I have no problem reading it.

443

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

I definitely can see that my eyeballs are vibrating from the sound.

444

00:24:26,000 --> 00:24:29,000

And you sound kind of funny too.

445

00:24:29,000 --> 00:24:32,000

You will submit, Earthling.

446

00:24:37,000 --> 00:24:39,000

Oh, that was really cool.

447

00:24:39,000 --> 00:24:46,000

A little disorientation from that, like there's something, you know, kind of dizzying about it.

448

00:24:46,000 --> 00:24:50,000

Really? I may be the worst subject ever to test this song.

449

00:24:50,000 --> 00:24:52,000

I don't get cars sick, I don't really get sea sick.

450

00:24:52,000 --> 00:24:53,000

I don't know.

451

00:24:53,000 --> 00:24:58,000

Maybe he's a bad subject, or maybe he just loves frustrating the audio guys.

452

00:24:58,000 --> 00:25:04,000

But enough's enough, they're going to blow him away with pure decibel power.

453

00:25:04,000 --> 00:25:09,000

We're pulling the foam out of all the speakers to get more power out of this,

454

00:25:09,000 --> 00:25:17,000

and we'll see if that has any response to me in a loss of bowel control kind of way.

455

00:25:17,000 --> 00:25:20,000

Loud noise is powerful.

456

00:25:20,000 --> 00:25:27,000

Military researchers built this device to spray a beam of sound loud enough to cause ear splitting pain.

457

00:25:33,000 --> 00:25:35,000

Okay, the foam's all out.

458

00:25:35,000 --> 00:25:38,000

That's really cool.

459

00:25:38,000 --> 00:25:43,000

These speakers are now pumping out 154 decibels.

460

00:25:43,000 --> 00:25:46,000

Louder than a jet aircraft taking off.

461

00:25:46,000 --> 00:25:50,000

Loud enough to instantly rupture unprotected eardrums.

462

00:25:50,000 --> 00:25:52,000

Adam can't wait.

463

00:25:52,000 --> 00:25:55,000

I can't stand the suspense, I want to get in there.

464

00:25:55,000 --> 00:25:58,000

It's kind of intervening, isn't it?

465

00:25:58,000 --> 00:26:00,000

It's really neat.

466

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

Sounds like, I don't know, imagine mountains moving, or an earthquake coming or something.

467

00:26:06,000 --> 00:26:13,000

But she's right, these low frequencies are emitted in massive natural events like earthquakes and tsunamis.

468

00:26:13,000 --> 00:26:16,000

But now for something unnatural.

469

00:26:16,000 --> 00:26:22,000

What you need to do is raise your hand if you feel anything funny that you want him to stop at.

470

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

Adam, are you ready?

471

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

I'm ready.

472

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

Okay, he's ready.

473

00:26:29,000 --> 00:26:39,000

Roger sweeping the frequency up and down between 20 and 100 hertz, watching for signs Adam's losing control.

474

00:26:39,000 --> 00:26:41,000

Nothing.

475

00:26:41,000 --> 00:26:43,000

Wow!

476

00:26:43,000 --> 00:26:46,000

Adam's dignity remains intact.

477

00:26:46,000 --> 00:27:00,000

That last bit when I went whoa, I mean it was like somebody was actually drumming on my chest.

478

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

And the other thing was, you know how when you speak there's like a, oh I could feel that just breathing.

479

00:27:07,000 --> 00:27:14,000

Those are still really long wavelengths and so it is actually physically moving air in and out of

your lungs as you breathe.

480

00:27:14,000 --> 00:27:18,000

So, yeah, that's great that we actually saw that.

481

00:27:18,000 --> 00:27:21,000

Wow, I mean that was just really amazing.

482

00:27:21,000 --> 00:27:25,000

I mean, I'm not sure if you can see it, but I think it's really amazing.

483

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

Yeah, that's great that we actually saw that.

484

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

It was, wow, I mean that was just really amazing.

485

00:27:30,000 --> 00:27:33,000

Everyone's got to try this.

486

00:27:33,000 --> 00:27:37,000

It seems the military can save itself some trouble.

487

00:27:37,000 --> 00:27:44,000

Even with the help of some of the world's best audio technicians, the Mythbusters just couldn't produce the brown note.

488

00:27:44,000 --> 00:27:52,000

It was incredibly, powerfully intense what the sound waves were doing to my body.

489

00:27:53,000 --> 00:27:56,000

But not at the 5, 7 or 9 hertz range.

490

00:27:56,000 --> 00:27:58,000

Did we bust the myth or not?

491

00:27:58,000 --> 00:28:02,000

I think we busted the myth. I think brown note is busted.

492

00:28:02,000 --> 00:28:04,000

The myth as we know it, yes, is busted.

493

00:28:11,000 --> 00:28:15,000

On Mythbusters, they have ways of making you talk.

494

00:28:15,000 --> 00:28:18,000

Tori and Scotty are going to make me cry today.

495

00:28:18,000 --> 00:28:21,000

Or at least they think they do.

496

00:28:21,000 --> 00:28:26,000

Can this tiny little drop really turn the toughest spy to water?

497

00:28:34,000 --> 00:28:37,000

Okay, so we have a weird psychological myth.

498

00:28:37,000 --> 00:28:40,000

We have to put the Chinese water torture to the test.

499

00:28:40,000 --> 00:28:45,000

Wait, is that the one where repetitive drips of water on your forehead are an effective form of torture

500

00:28:45,000 --> 00:28:47,000

and possibly will drive you insane?

501

00:28:47,000 --> 00:28:49,000

Exactly. That's the one.

502

00:28:49,000 --> 00:28:51,000

Wow.

503

00:28:51,000 --> 00:28:55,000

Water torture, the stuff of movies or something more?

504

00:28:55,000 --> 00:29:00,000

Torture victim counselor Gerald Gray has certainly heard of it.

505

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

It's a process by which the prisoner is immobilized and slow drips of water are dropped onto their head

506

00:29:10,000 --> 00:29:13,000

and I don't know how long I can't say.

507

00:29:13,000 --> 00:29:17,000

I'm not sure what's considered an effective use of the torture.

508

00:29:17,000 --> 00:29:25,000

To test if and how drips become powerful persuaders, the Mythbusters have two experiments in mind.

509

00:29:25,000 --> 00:29:29,000

For the first, they'll create their own torture chamber.

510

00:29:29,000 --> 00:29:36,000

They'll need a rack to secure the victim, a brace to keep their head still, and a constantly dripping tap.

511

00:29:36,000 --> 00:29:42,000

Tori's on rack duty and seems to be taking unexpected pleasure in his work.

512

00:29:42,000 --> 00:29:46,000

You know, we don't need that. Why are we going through all this trouble to build this water torture device?

513

00:29:46,000 --> 00:29:50,000

I mean, really, just buy him a six pack and they'll tell you whatever you want to know.

514

00:29:52,000 --> 00:29:58,000

He'll make a faceplate from an old mold of Adam's head, a kind of torture in itself.

515

00:29:58,000 --> 00:30:00,000

Take it off, Adam.

516

00:30:00,000 --> 00:30:03,000

Oh, it burns. I don't want to look like Adam.

517

00:30:07,000 --> 00:30:10,000

Carrie's creating a plumber's nightmare.

518

00:30:10,000 --> 00:30:15,000

This valve is gate valve and this is going to vary how fast the drips come.

519

00:30:15,000 --> 00:30:18,000

A constantly dripping tap.

520

00:30:18,000 --> 00:30:23,000

So it'll just be little drips off the end and then one will be halfway in between.

521

00:30:23,000 --> 00:30:31,000

Call her a torture perfectionist, if you will, but Carrie wants that drop to be as close as possible to identical every time.

522

00:30:31,000 --> 00:30:42,000

I think it's actually going to be impossible for the human mind to decipher a large drip from a small drip, but just in case, we have to try every option.

523

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

I imagine I'm going to fall asleep on this thing.

524

00:30:53,000 --> 00:30:55,000

Trying to picture the water drop.

525

00:30:55,000 --> 00:30:56,000

Oh!

526

00:30:58,000 --> 00:31:00,000

So they have the rig.

527

00:31:00,000 --> 00:31:02,000

Could you fall asleep?

528

00:31:02,000 --> 00:31:07,000

Now, as a precaution, they're calling in paramedics to monitor the test subject's health.

529

00:31:07,000 --> 00:31:14,000

You might remember Sanjay from a previous MythBusters close encounter of the uncomfortable kind.

530

00:31:14,000 --> 00:31:16,000

Oh, Sanjay.

531

00:31:16,000 --> 00:31:19,000

Sanjay, we respect you tomorrow.

532

00:31:22,000 --> 00:31:25,000

So have you heard this myth of the Chinese torture treatment?

533

00:31:25,000 --> 00:31:35,000

Yeah, I have. I've heard of this particular myth and that the dropping of the water, just the actual sensation of all the sensory is that all of it on your skin, you just feel it run across.

534

00:31:35,000 --> 00:31:41,000

It feels like bugs run across you. So if somebody has an issue about, you know, bugs coming running across their bodies, they may start hallucinating about that.

535

00:31:41,000 --> 00:31:45,000

Hmm, bugs crawling on your head. Who's up for that?

536

00:31:45,000 --> 00:31:52,000

I think because Carrie already administered her own water torture to you, she should naturally be the first.

537

00:31:52,000 --> 00:31:54,000

I'm going to have to agree.

538

00:31:54,000 --> 00:31:55,000

All right.

539

00:31:55,000 --> 00:31:57,000

Get on the rack.

540

00:31:57,000 --> 00:32:00,000

I'm actually a little shaky.

541

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

Are you nervous?

542

00:32:01,000 --> 00:32:02,000

Yeah.

543

00:32:02,000 --> 00:32:04,000

It's all right. Just relax. You'll be fine.

544

00:32:04,000 --> 00:32:12,000

Carrie's being a good sport and most importantly, she knows she can stop this at any time and be released in seconds.

545

00:32:13,000 --> 00:32:25,000

First, Sanjay checks her vital signs and as this is a psychological test, Carrie will be asked to set of questions before and during the torture to establish her stress levels.

546

00:32:25,000 --> 00:32:27,000

Do you feel nervous and anxious?

547

00:32:27,000 --> 00:32:29,000

Sometimes.

548

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

Do you feel, have you ever felt afraid?

549

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

Sometimes.

550

00:32:34,000 --> 00:32:39,000

How easily do you get upset? Ever have panic spells or feel panic?

551

00:32:40,000 --> 00:32:41,000

Rarely.

552

00:32:41,000 --> 00:32:42,000

Okay.

553

00:32:42,000 --> 00:32:44,000

Do you like gladiator movies?

554

00:32:47,000 --> 00:32:58,000

Now remember, Carrie is free to call this off at any time. The shackles can be removed within seconds and she's among friends. But it's still a creepy feeling.

555

00:32:58,000 --> 00:33:05,000

I can't even imagine this being for real. I'm around people that I'm secure with that I totally trust. I know that are going to get me out of this.

556

00:33:05,000 --> 00:33:13,000

I have an ambulance standing by with paramedics. If this was for real, I would be screaming and struggling. I'd probably have bloody wrists and ankles by now.

557

00:33:13,000 --> 00:33:15,000

I think we're ready to go.

558

00:33:15,000 --> 00:33:16,000

Starting clock.

559

00:33:18,000 --> 00:33:20,000

And so the torture begins.

560

00:33:20,000 --> 00:33:31,000

Every two seconds or so, a fat, cold drop of water will fall.

561

00:33:31,000 --> 00:33:39,000

Hitting Carrie's forehead in exactly the same place every time. Every two seconds.

562

00:33:39,000 --> 00:33:41,000

Somewhat annoying.

563

00:33:41,000 --> 00:33:51,000

Everything is as it should be in Carrie's world of water torture. The drips are the right size and hitting her in the right place. So now it's time to start the second experiment.

564

00:33:51,000 --> 00:33:53,000

It looks so painful.

565

00:33:54,000 --> 00:34:03,000

Carrie has to contend with her restraints. But what about just the dripping water on its own? Would that have any effect without the discomfort of being tied down?

566

00:34:03,000 --> 00:34:10,000

So, comfy chair, no restraints, the victim just has to sit there and do nothing.

567

00:34:10,000 --> 00:34:13,000

No, I think I can do it. I think I can do it.

568

00:34:13,000 --> 00:34:15,000

Alright, let's go.

569

00:34:15,000 --> 00:34:25,000

This job sounds just perfect for Adam. The biggest challenge will be not going to the bathroom. But after the brown note, he knows the drill.

570

00:34:25,000 --> 00:34:27,000

There is no dignity on this bus.

571

00:34:27,000 --> 00:34:32,000

And soon, he too is ready to take his punishment.

572

00:34:32,000 --> 00:34:38,000

I feel alright. This is not the worst thing I've ever had to do for the show.

573

00:34:38,000 --> 00:34:45,000

Not by a long shot. Sitting in comfy chair. Get water dripped on my head all day.

574

00:34:45,000 --> 00:34:55,000

I think the main problem I'm going to have is going stir crazy. Not going nuts from the drip.

575

00:34:55,000 --> 00:34:59,000

I'm getting somewhat flustered over the fact that my arm is falling asleep.

576

00:34:59,000 --> 00:35:02,000

Carrie isn't sharing Adam's sunny disposition.

577

00:35:02,000 --> 00:35:05,000

I'm somewhat jumpy. I feel somebody touch me.

578

00:35:05,000 --> 00:35:12,000

Okay, Carrie, I'm going to ask you some questions. This is like the same one that Scotty asked you. We're just now 15 minutes into this.

579

00:35:12,000 --> 00:35:16,000

I didn't think I was going to go 15 minutes. I'm very surprised.

580

00:35:16,000 --> 00:35:19,000

Do you feel nervous or anxious?

581

00:35:19,000 --> 00:35:20,000

Mild.

582

00:35:20,000 --> 00:35:21,000

Mild.

583

00:35:21,000 --> 00:35:23,000

Do you feel afraid?

584

00:35:23,000 --> 00:35:24,000

Mild.

585

00:35:24,000 --> 00:35:25,000

Mild.

586

00:35:25,000 --> 00:35:29,000

How easily would you get upset right now?

587

00:35:29,000 --> 00:35:30,000

Easily.

588

00:35:30,000 --> 00:35:31,000

Easily?

589

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

Severe. Do you feel like falling apart or going to pieces?

590

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

Not yet.

591

00:35:37,000 --> 00:35:38,000

So let's say moderate?

592

00:35:38,000 --> 00:35:39,000

Moderate.

593

00:35:39,000 --> 00:35:42,000

Do you feel like you're having a problem sleeping?

594

00:35:42,000 --> 00:35:49,000

Yes, I am having an extreme problem sleeping. There's seven people standing around me and there's water dripping on my head.

595

00:35:49,000 --> 00:35:54,000

After 15 minutes, Carrie thinks she's holding up relatively well.

596

00:35:54,000 --> 00:36:01,000

But the power of water torture is meant to increase the longer it goes on.

597

00:36:01,000 --> 00:36:08,000

As most of the Mythbusters crew knows, I can fall asleep just about anywhere.

598

00:36:08,000 --> 00:36:17,000

And I'd like to attempt to do that here, but there's this fly that's just landing on every exposed part of my body in the can.

599

00:36:17,000 --> 00:36:25,000

The dripping water is breaking my concentration, so I can't just zone out and forget about the pains that I'm having from being strapped down.

600

00:36:25,000 --> 00:36:30,000

It's constantly bringing me back to the reality that my shoulders are killing me.

601

00:36:30,000 --> 00:36:33,000

Oh yeah, plenty of water.

602

00:36:33,000 --> 00:36:35,000

We can go for hours still.

603

00:36:35,000 --> 00:36:37,000

I'm going to get some water.

604

00:36:37,000 --> 00:36:39,000

I'm going to get some water.

605

00:36:39,000 --> 00:36:41,000

I'm going to get some water.

606

00:36:41,000 --> 00:36:43,000

I'm going to get some water.

607

00:36:43,000 --> 00:36:45,000

Oh yeah, plenty of water.

608

00:36:45,000 --> 00:36:47,000

We can go for hours still.

609

00:36:47,000 --> 00:36:51,000

Carrie's been on the rack an hour now.

610

00:36:51,000 --> 00:36:58,000

Her vital signs are still within the safe range, but the torture is starting to tell on her emotions.

611

00:36:58,000 --> 00:36:59,000

You ready?

612

00:36:59,000 --> 00:37:00,000

Go ahead.

613

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

Okay, do you feel nervous and anxious?

614

00:37:02,000 --> 00:37:03,000

Yes.

615

00:37:03,000 --> 00:37:06,000

Would you say mild, moderate or severe?

616

00:37:06,000 --> 00:37:09,000

Um, uh, severe.

617

00:37:09,000 --> 00:37:12,000

Do you feel afraid?

618

00:37:12,000 --> 00:37:15,000

Um, no, mild.

619

00:37:15,000 --> 00:37:17,000

Mild?

620

00:37:17,000 --> 00:37:22,000

Um, are you getting upset or do you feel like you're going to panic?

621

00:37:22,000 --> 00:37:24,000

Stream.

622

00:37:24,000 --> 00:37:28,000

Do you feel like you're going to fall apart and go to pieces?

623

00:37:28,000 --> 00:37:31,000

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

624

00:37:31,000 --> 00:37:32,000

Alright, let's get her out.

625

00:37:32,000 --> 00:37:34,000

No, it's fine. Just give me a second, okay?

626

00:37:34,000 --> 00:37:44,000

I had a moment of sheer tear and panic when I was on the rack and it was so strange.

627

00:37:44,000 --> 00:37:51,000

I didn't expect going into this that I was going to freak out and start crying in front of everybody.

628

00:37:51,000 --> 00:37:56,000

I mean, I knew I could get up at any time, but the restraints totally made me lose it.

629

00:37:56,000 --> 00:37:59,000

Do you feel yourself trembling or shaking?

630

00:37:59,000 --> 00:38:03,000

Yes, extreme.

631

00:38:03,000 --> 00:38:08,000

I just had a sudden glossophobia attack. That's what that was a minute ago.

632

00:38:08,000 --> 00:38:11,000

Being bound is crazy.

633

00:38:11,000 --> 00:38:15,000

I didn't even feel the water at that point.

634

00:38:15,000 --> 00:38:18,000

Goddamn fly!

635

00:38:18,000 --> 00:38:24,000

Which lands on my feet, my toes, my elbows, my hands and this is just awful.

636

00:38:24,000 --> 00:38:26,000

The fly is definitely much worse than the water.

637

00:38:26,000 --> 00:38:34,000

Flies aside, Adam's finding life is an unrestrained, soggy couch potato, somewhat to his liking.

638

00:38:34,000 --> 00:38:36,000

Long term psychological side effects.

639

00:38:36,000 --> 00:38:43,000

If I haven't had any long term psychological side effects from all the things I've already done on this show, this isn't going to hurt much more.

640

00:38:43,000 --> 00:38:46,000

Are your hands feeling wet and clammy?

641

00:38:46,000 --> 00:38:50,000

No.

642

00:38:50,000 --> 00:38:55,000

Are you having a problem sleeping?

643

00:38:55,000 --> 00:38:59,000

I think this is actually a very good torture.

644

00:38:59,000 --> 00:39:05,000

Although Carrie's regained her composure, somehow this just isn't fun anymore.

645

00:39:05,000 --> 00:39:10,000

The experiment is becoming a little too real. Enough is enough.

646

00:39:10,000 --> 00:39:20,000

I think you've proven yourself. I think you probably could stay here longer, but I'm actually going to let you lose some concern about your shoulder and all the twitching that you're doing.

647

00:39:20,000 --> 00:39:27,000

I'm also getting that aggro, and that's the last thing you need to get.

648

00:39:27,000 --> 00:39:32,000

Take it nice and slow. If you start to feel like crap, go back to it before.

649

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

Carrie lasted more than an hour and a half, but in hindsight, it was probably an hour and a half too long.

650

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

I'm so used to coming into Mythbusters and having a blast doing everything that we do.

651

00:39:44,000 --> 00:39:51,000

It was a rough experiment for me. I still haven't gotten over the bruises on my wrists from the shackles.

652

00:39:51,000 --> 00:39:55,000

Unrestrained, Adam is able to cope much better with the drip.

653

00:39:55,000 --> 00:39:58,000

It's been about three and a half hours.

654

00:39:58,000 --> 00:40:04,000

At the worst, I feel like someone's got their finger on the spot on my forehead that the water keeps hitting.

655

00:40:04,000 --> 00:40:09,000

Ultimately, it seems it's not the waterworks above his head that will defeat him.

656

00:40:09,000 --> 00:40:22,000

These adult diapers are really meant for occasional leakage and incontinence, not for a grown man's midday wee.

657

00:40:22,000 --> 00:40:25,000

Oh, oh, oh my God!

658

00:40:29,000 --> 00:40:36,000

In the space of an afternoon, water torture has claimed its second Mythbuster in an unexpected way.

659

00:40:36,000 --> 00:40:41,000

But Adam's left in no doubt about the power of those little drops.

660

00:40:41,000 --> 00:40:48,000

I put it this way. Because you'd have to restrain someone to do that, even if we eliminate the restraints,

661

00:40:48,000 --> 00:40:58,000

as we did for me, I felt the pressure with the restraints. It would be a horrible experience over like eight or ten hours or a couple of days.

662

00:40:58,000 --> 00:41:03,000

You'd not only feel the pressure from the drip, but you'd be itching, you'd be wet, you'd be cold.

663

00:41:03,000 --> 00:41:07,000

All of those factors, I'd say, yeah, absolutely, it would be a torture.

664

00:41:07,000 --> 00:41:12,000

No, it's not a myth. It's been used at least once in my experience. I suppose it's been used other times.

665

00:41:12,000 --> 00:41:20,000

Gerald's too polite to say they should have thought a little more about the consequences of this experiment before starting it.

666

00:41:20,000 --> 00:41:22,000

But you get the drift.

667

00:41:22,000 --> 00:41:32,000

It's a very tricky thing to experiment with torture. Most people don't know it, but it can be very, very deadly.

668

00:41:32,000 --> 00:41:39,000

Well, when we began this, it seemed like a fun experiment, exciting, almost like a game with the torture.

669

00:41:39,000 --> 00:41:45,000

And after talking to Gerald, my opinion of this whole thing has completely changed. I don't know about you guys.

670

00:41:45,000 --> 00:41:52,000

Oh, I felt the same way. I went into this, thinking of it like a physical endurance test, like climbing a mountain.

671

00:41:52,000 --> 00:41:57,000

And I walked away with it with much more real experience. It was much scarier than I expected.

672

00:41:57,000 --> 00:41:58,000

Yeah, for sure.

673

00:41:58,000 --> 00:42:06,000

When it comes down to it, we can confirm Chinese water torture through our expert interview, but there's no way we can physically endure anything that would confirm this myth.

674

00:42:06,000 --> 00:42:12,000

Exactly, because at any point we can just say, I'm done. I want off the table and someone's there to let us off.

675

00:42:12,000 --> 00:42:20,000

I mean, in reality, that's the fears that you can never get out. And there's no way that we can ever really experiment that way.

676

00:42:20,000 --> 00:42:22,000

We'll never be able to get there.

677

00:42:22,000 --> 00:42:25,000

So let's finish this. We're done with Chinese water torture.

678

00:42:25,000 --> 00:42:26,000

Yes.

679

00:42:29,000 --> 00:42:45,000

Hollywood tells us the correct etiquette when eating lead is a dramatic plunge in the general direction of backwards.

680

00:42:48,000 --> 00:42:53,000

But try as they might, the mythbusters couldn't get a recently deceased pig to do that.

681

00:42:53,000 --> 00:42:57,000

So now it's Buster's turn to be blown away.

682

00:42:57,000 --> 00:42:59,000

What did Adam and Jamie do to you?

683

00:42:59,000 --> 00:43:06,000

He's looking a little worse for wear after an unfortunate brush with the Ming Dynasty rocket chair.

684

00:43:22,000 --> 00:43:24,000

His ass is on fire!

685

00:43:28,000 --> 00:43:32,000

Burnt but not broken, he stands ready to be blown away.

686

00:43:32,000 --> 00:43:34,000

He's on the edge.

687

00:43:34,000 --> 00:43:36,000

Okay, look down.

688

00:43:37,000 --> 00:43:47,000

After the test with the pigs proved basically that the bullet is not going to throw you back, we decided to do what is the worst case scenario if you're wearing a bulletproof vest,

689

00:43:47,000 --> 00:43:51,000

which is going to take all the force of the bullet right here. It's not going to be absorbed in your body.

690

00:43:51,000 --> 00:43:58,000

What would happen? So we're going to run through our spate of weapons with this and see if Buster actually gets thrown back.

691

00:43:58,000 --> 00:44:04,000

Even if the bullet gets through the vest, Buster's solid torso will bear the brunt of the impact.

692

00:44:04,000 --> 00:44:06,000

Is it enough to blow him away?

693

00:44:06,000 --> 00:44:11,000

Expert police marksman Sergeant Alan Normandy will do the honors.

694

00:44:12,000 --> 00:44:13,000

Nothing.

695

00:44:17,000 --> 00:44:18,000

Nothing.

696

00:44:19,000 --> 00:44:20,000

Nothing.

697

00:44:20,000 --> 00:44:23,000

One round 9mm pistol fired from an MP5.

698

00:44:30,000 --> 00:44:31,000

Nounce.

699

00:44:31,000 --> 00:44:32,000

Nothing to sequel.

700

00:44:32,000 --> 00:44:36,000

This will be a 45 cartridge fired through the Tommy gun.

701

00:44:42,000 --> 00:44:48,000

That was a hell of a punch to the vest. I mean the whole thing puffed out.

702

00:44:48,000 --> 00:44:49,000

Heal the answer.

703

00:44:49,000 --> 00:44:51,000

12 gauge, double-ot buck.

704

00:44:51,000 --> 00:44:56,000

Again, it's down to the shotgun to at least knock Buster off the hook.

705

00:44:58,000 --> 00:45:00,000

Come on, man.

706

00:45:00,000 --> 00:45:06,000

Any high school physics textbook will shoot holes in Hollywood's gunfight scenes.

707

00:45:06,000 --> 00:45:11,000

Newton's third law says any action has an equal and opposite reaction.

708

00:45:11,000 --> 00:45:18,000

So to make the shooty fly across the room, the shooter would have to be thrown in equal distance battles.

709

00:45:18,000 --> 00:45:20,000

It don't happen.

710

00:45:22,000 --> 00:45:30,000

The simple truth about this test is it's about the impact or effect on the target can't be greater than what the shooter is going to feel.

711

00:45:30,000 --> 00:45:32,000

Newton's laws still apply.

712

00:45:32,000 --> 00:45:36,000

So if he was going to go 10 feet, the shooter would go 10 feet in the opposite direction.

713

00:45:36,000 --> 00:45:37,000

Absolutely.

714

00:45:37,000 --> 00:45:38,000

That's a big gun.

715

00:45:38,000 --> 00:45:40,000

That's a big big gun.

716

00:45:40,000 --> 00:45:41,000

Real big gun.

717

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

But Hollywood never lets the laws of physics stand in its way.

718

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

Remember Tori being blown away?

719

00:45:48,000 --> 00:45:52,000

Now we'll reveal some special effects secrets.

720

00:45:52,000 --> 00:45:54,000

I think that was a take.

721

00:45:54,000 --> 00:45:56,000

Oh, you got me.

722

00:45:56,000 --> 00:46:00,000

Yeah, we're going to put on this jerk harness and it'll make you fly.

723

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

It'll be like Superman except backwards.

724

00:46:02,000 --> 00:46:07,000

Matt Heron has worked on films like Jurassic Park and the Star Wars prequels.

725

00:46:07,000 --> 00:46:11,000

Blowing people away is a special effects staple.

726

00:46:11,000 --> 00:46:15,000

First, Tori is strapped into a harness called a jerk suit.

727

00:46:15,000 --> 00:46:17,000

It's nice. It's very slimming.

728

00:46:17,000 --> 00:46:19,000

It's very slimming.

729

00:46:19,000 --> 00:46:21,000

It brings out your girlish figure quite well.

730

00:46:21,000 --> 00:46:26,000

Tori, how could you?

731

00:46:26,000 --> 00:46:33,000

A rope is attached to the back of the suit and looped through a pulley.

732

00:46:33,000 --> 00:46:35,000

Jump! You got it, jump!

733

00:46:35,000 --> 00:46:38,000

We're going to pull and then it's a timing thing.

734

00:46:38,000 --> 00:46:44,000

So you pull, he's going to fly in the air and then when he gets over the mat, he's going to ease him in gently.

735

00:46:44,000 --> 00:46:49,000

I see. So it'll triangulate down to like over here and he'll get pulled up and then be let down.

736

00:46:50,000 --> 00:46:56,000

On the other end of the rope, a tug-of-war team, all too ready to jerk Tori off his feet.

737

00:47:02,000 --> 00:47:04,000

It's a Tori pinata.

738

00:47:04,000 --> 00:47:11,000

For that extra dollop of realism, Jamie straps a bag of fake blood to Tori's chest.

739

00:47:11,000 --> 00:47:15,000

So Tori, I'm going to shoot you with this thing and it'll poke a hole in the bag, alright?

740

00:47:15,000 --> 00:47:17,000

It's an airsoft pistol.

741

00:47:17,000 --> 00:47:18,000

Great.

742

00:47:18,000 --> 00:47:19,000

Alright.

743

00:47:19,000 --> 00:47:20,000

Cool.

744

00:47:20,000 --> 00:47:22,000

Ready guys? Ready? Ready?

745

00:47:22,000 --> 00:47:24,000

On bang, on bang!

746

00:47:24,000 --> 00:47:27,000

Three, two, one, bang!

747

00:47:27,000 --> 00:47:36,000

Bang! Bang! Bang! Bang! Bang! Bang! Bang! Bang! Bang! Bang!

748

00:47:37,000 --> 00:47:41,000

Time to perfection and Tori eats lead movie style.

749

00:47:41,000 --> 00:47:43,000

Nicely done Tori!

750

00:47:44,000 --> 00:47:46,000

Alright, let's do it again.

751

00:47:46,000 --> 00:47:49,000

It's certainly convincing on the high-speed camera.

752

00:47:52,000 --> 00:47:54,000

Man, the bad guy takes it away.

753

00:47:54,000 --> 00:47:57,000

I think Tom Poole hired me as a stuntman.

754

00:47:57,000 --> 00:47:58,000

Alright.

755

00:47:58,000 --> 00:48:01,000

But that reveals one last problem. That rope.

756

00:48:01,000 --> 00:48:06,000

Well, the clever geeky guys in the graphics department take care of that during their lunch break.

757

00:48:06,000 --> 00:48:12,000

Well guys, we threw everything that we had at those pigs and the most we got was getting

758

00:48:12,000 --> 00:48:14,000

the pig to fall off the hook.

759

00:48:14,000 --> 00:48:15,000

I know, totally busted.

760

00:48:15,000 --> 00:48:18,000

I mean, you see in Hollywood movies, people getting shot and they get thrown back.

761

00:48:18,000 --> 00:48:20,000

I mean, this pig went back maybe two inches?

762

00:48:20,000 --> 00:48:21,000

Yeah.

763

00:48:21,000 --> 00:48:22,000

Top.

764

00:48:22,000 --> 00:48:25,000

And we were using deer slugs, fully automatic machine guns.

765

00:48:25,000 --> 00:48:26,000

Three machine guns at once?

766

00:48:26,000 --> 00:48:30,000

Yes, even the high-powered sniper rifle, you know, didn't really do that much to it.

767

00:48:30,000 --> 00:48:31,000

No.

768

00:48:31,000 --> 00:48:33,000

And when you think about it, it's not that surprising.

769

00:48:33,000 --> 00:48:36,000

It's kind of like a flea running head on it, an elephant.

770

00:48:36,000 --> 00:48:40,000

No matter how fast you get it going, it ain't going to do a whole lot.

771

00:48:40,000 --> 00:48:46,000

Well, just as I said on the shooting range, if it was going to toss the shootee back that much,

772

00:48:46,000 --> 00:48:49,000

it's going to shoot the shooter back the same amount.

773

00:48:49,000 --> 00:48:51,000

I mean, there's going to be the same reaction.

774

00:48:51,000 --> 00:48:52,000

Equal and opposite reaction.

775

00:48:52,000 --> 00:48:53,000

Exactly.

776

00:48:53,000 --> 00:48:54,000

So it's busted.

777

00:48:54,000 --> 00:48:55,000

It's busted.

778

00:48:55,000 --> 00:48:56,000

Totally busted.

779

00:48:56,000 --> 00:48:57,000

100%.

780

00:49:10,000 --> 00:49:11,000

100%.

781

00:49:11,000 --> 00:49:12,000

100%.

782

00:49:12,000 --> 00:49:13,000

100%.

783

00:49:13,000 --> 00:49:14,000

100%.

784

00:49:14,000 --> 00:49:15,000

100%.

785

00:49:15,000 --> 00:49:16,000

100%.

786

00:49:16,000 --> 00:49:17,000

100%.

787

00:49:17,000 --> 00:49:18,000

100%.

788

00:49:18,000 --> 00:49:19,000

100%.

789

00:49:19,000 --> 00:49:20,000

100%.

790

00:49:20,000 --> 00:49:21,000

100%.

791

00:49:21,000 --> 00:49:22,000

100%.

792

00:49:22,000 --> 00:49:23,000

100%.

793

00:49:23,000 --> 00:49:24,000

100%.

794

00:49:24,000 --> 00:49:25,000

100%.

795

00:49:25,000 --> 00:49:26,000

100%.

796

00:49:26,000 --> 00:49:27,000

100%.

797

00:49:27,000 --> 00:49:28,000

100%.

798

00:49:28,000 --> 00:49:29,000

100%.

799

00:49:29,000 --> 00:49:30,000

100%.

800

00:49:30,000 --> 00:49:31,000

100%.