

1

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

On this episode of MythBusters,

2

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

Adam and Jamie test hand-grenade hero myths.

3

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

Inspired by Hollywood, will a heroic dive save the rest of the cast?

4

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

That was incredible.

5

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

Can water dampen the blast?

6

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

And how about using a fridge to cool things off?

7

00:00:26,000 --> 00:00:30,000

Next, the team take to task self-help CDs.

8

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

My body is strong.

9

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

Can a course of self-hypnosis cure seasickness?

10

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

Fix a B-phobia.

11

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

There's your bleep.

12

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

Or even change your eye color.

13

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

And finally, Carrie Grant and Tori turn their stomachs

14

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

with the latest Diet Coke and Mentos sensation sweeping the internet.

15

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

Hi, Carrie.

16

00:00:52,000 --> 00:00:56,000

Will a candy and cola cascade cause your belly to blow?

17

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

Oh, no!

18

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

Who are the MythBusters?

19

00:01:03,000 --> 00:01:05,000

Adam Savage.

20

00:01:05,000 --> 00:01:07,000

Is everybody ready for diving?

21

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

And Jamie Hydrom.

22

00:01:08,000 --> 00:01:10,000

It's me, all worked up, just looking at it.

23

00:01:10,000 --> 00:01:11,000

That was beautiful.

24

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

Between them more than 30 years of special effects experience.

25

00:01:15,000 --> 00:01:17,000

That was heavy.

26

00:01:17,000 --> 00:01:19,000

Joining them, Grant Imahara.

27

00:01:19,000 --> 00:01:21,000

That was on Run For Your Life.

28

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

Tori Bellachy.

29

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

Somebody ordered some exploding pants.

30

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

And Carrie Byron.

31

00:01:25,000 --> 00:01:27,000

High explosives and electricity.

32

00:01:27,000 --> 00:01:29,000

They don't just tell the myths.

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00:01:29,000 --> 00:01:32,000

They put them to the test.

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

Be careful with those.

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00:01:49,000 --> 00:01:51,000

They're not real topo props.

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00:01:51,000 --> 00:01:52,000

So what's the myth?

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

Well, these are part of our next myth, which is a Hollywood myth.

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00:01:55,000 --> 00:01:59,000

Picture a group of intrepid heroes fighting evil adversaries

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

when into their midst flies.

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

A live grenade.

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00:02:03,000 --> 00:02:04,000

Guess what happens next?

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00:02:04,000 --> 00:02:08,000

Well, I would say no doubt the hero actor jumps on a grenade,

43

00:02:08,000 --> 00:02:10,000

thus protecting the rest of the people.

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00:02:10,000 --> 00:02:11,000

Exactly right.

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00:02:11,000 --> 00:02:13,000

That's the myth we want to test.

46

00:02:13,000 --> 00:02:14,000

We'll jumping on a grenade.

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

Actually save those around you.

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00:02:17,000 --> 00:02:21,000

It's another explosive tall tale from Tinseltown.

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00:02:21,000 --> 00:02:24,000

The director calls action and our stuntman hero

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

steps up to put his body on the line.

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

Some special effects later,

52

00:02:29,000 --> 00:02:31,000

and although he's out of a job,

53

00:02:31,000 --> 00:02:34,000

the rest of the cast have miraculously survived.

54

00:02:35,000 --> 00:02:38,000

So what do you think our plan is?

55

00:02:38,000 --> 00:02:41,000

Well, why don't we start by making a human analog?

56

00:02:41,000 --> 00:02:43,000

Out of a ballistic media for our hero?

57

00:02:43,000 --> 00:02:45,000

Yeah, and we'll set off some grenades,

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00:02:45,000 --> 00:02:48,000

both with and without our hero diving on them.

59

00:02:48,000 --> 00:02:49,000

All right.

60

00:02:49,000 --> 00:02:51,000

You know, we're also going to need an objective way

61

00:02:51,000 --> 00:02:54,000

of assessing the blast damage,

62

00:02:54,000 --> 00:02:57,000

both with and without the hero on the grenade.

63

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

And just for fun, why don't we try some other ways

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00:02:59,000 --> 00:03:01,000

of suppressing grenade blasts?

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

That's great. Let's do it.

66

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

First up, this movie myth needs a star

67

00:03:05,000 --> 00:03:08,000

who'll be willing to go to ground on a grenade.

68

00:03:08,000 --> 00:03:11,000

No one's volunteering, so Adam begins bodybuilding.

69

00:03:11,000 --> 00:03:14,000

Normally when we want to do a human analog on the show,

70

00:03:14,000 --> 00:03:17,000

we use ballistic gelatin or animal carcasses.

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00:03:17,000 --> 00:03:20,000

This stuff is, we've used it on a few myths,

72

00:03:20,000 --> 00:03:22,000

it's still relatively new to us.

73

00:03:22,000 --> 00:03:24,000

It's a different kind of ballistic media,

74

00:03:24,000 --> 00:03:27,000

also based on animal protein, like ballistic gelatin.

75

00:03:27,000 --> 00:03:30,000

However, it's much more stable at room temperature.

76

00:03:30,000 --> 00:03:34,000

While the catering on this film set may be gloopy at best,

77

00:03:34,000 --> 00:03:39,000

oh, the boys have ensured the dummy will be fattened up.

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00:03:40,000 --> 00:03:43,000

There are several things about this dummy that bear noting.

79

00:03:43,000 --> 00:03:47,000

The first is that it weighs the same as an adult male,

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00:03:47,000 --> 00:03:50,000

because it's about the same size as an adult male,

81

00:03:50,000 --> 00:03:54,000

and it has the same density in terms of the ballistic material

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00:03:54,000 --> 00:03:56,000

that we use and human flesh.

83

00:03:56,000 --> 00:03:59,000

So it should be perfect for our test.

84

00:03:59,000 --> 00:04:03,000

So we need a way to gauge the damage caused

85

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

both with and without a hero grenade diver.

86

00:04:06,000 --> 00:04:11,000

So Jamie and I have come up with this, a set of these guys.

87

00:04:11,000 --> 00:04:16,000

These will be our plywood actors standing in for our movie band of brothers.

88

00:04:16,000 --> 00:04:18,000

They will be standing around where the grenade is happening,

89

00:04:18,000 --> 00:04:21,000

and we'll try one control without anyone jumping on it.

90

00:04:21,000 --> 00:04:23,000

See what kind of damage they take,

91

00:04:23,000 --> 00:04:25,000

and for take two, we'll put somebody jumping on the grenade

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00:04:25,000 --> 00:04:27,000

and see what kind of damage they take then.

93

00:04:27,000 --> 00:04:30,000

So the cutout cast is ready for action.

94

00:04:30,000 --> 00:04:33,000

Now all they need is the perfect location.

95

00:04:36,000 --> 00:04:52,000

Watch the coin. You're getting sleepy. Very, very sleepy.

96

00:04:52,000 --> 00:04:55,000

Wait, why are we doing hypnosis again?

97

00:04:55,000 --> 00:04:57,000

Haven't we been here before?

98

00:04:57,000 --> 00:05:05,000

Yep, but the furor on the fan side over mesmeric mind-altering myths

99

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

just won't let up.

100

00:05:07,000 --> 00:05:11,000

Despite busting the theory that you can plant a post-hypnotic suggestion

101

00:05:11,000 --> 00:05:13,000

in an unwilling dupe,

102

00:05:13,000 --> 00:05:18,000

I had a clear idea of what they wanted me to do.

103

00:05:18,000 --> 00:05:24,000

And proving as plausible that memory recall can be hypnotically enhanced.

104

00:05:24,000 --> 00:05:28,000

All of that I remembered after we relaxed with the hypnosis.

105

00:05:28,000 --> 00:05:31,000

The fans are demanding the team tackle self-hypnosis.

106

00:05:31,000 --> 00:05:34,000

Specifically, the CDs you find on the internet

107

00:05:34,000 --> 00:05:40,000

that claim you can change your life in any number of weird and wonderful ways.

108

00:05:40,000 --> 00:05:44,000

So this time we're going to try self-hypnosis mid.

109

00:05:44,000 --> 00:05:47,000

Those are the CDs that you listen to and they're supposed to influence you?

110

00:05:47,000 --> 00:05:49,000

Yeah, they're all over the internet.

111

00:05:49,000 --> 00:05:52,000

You can lose weight, regrow your hair, or even quit smoking.

112

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

So why don't we each try one?

113

00:05:54,000 --> 00:05:57,000

Okay, well, I volunteer for the seasickness one

114

00:05:57,000 --> 00:06:01,000

because personally, I'm sick of being the guy that always has to vomit on camera.

115

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

Alright, well, since I'm only afraid of commitment and I doubt that's going to change

116

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

maybe we should bring in Adam and try to help him get over his extreme fear of bees.

117

00:06:10,000 --> 00:06:12,000

Alright, well, if you guys are going to work with rational myths

118

00:06:12,000 --> 00:06:14,000

I would like to try something a little more outlandish.

119

00:06:14,000 --> 00:06:17,000

I saw one where you can change your eye color

120

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

and since that's a physical change

121

00:06:19,000 --> 00:06:22,000

you'll know if it works because it'll come back with like purple eyes.

122

00:06:22,000 --> 00:06:24,000

Alright, sounds good.

123

00:06:24,000 --> 00:06:26,000

Spin me, baby.

124

00:06:26,000 --> 00:06:28,000

As regular viewers will know

125

00:06:28,000 --> 00:06:32,000

Grant has a tendency to go a little green around the gills.

126

00:06:32,000 --> 00:06:35,000

I feel something coming up in my throat.

127

00:06:35,000 --> 00:06:39,000

This NASA knockoff, affectionately known as the chuck chair

128

00:06:39,000 --> 00:06:42,000

is used to simulate the sensation of seasickness.

129

00:06:42,000 --> 00:06:43,000

Uh-oh.

130

00:06:43,000 --> 00:06:47,000

And it works a treat on our very own barf machine.

131

00:06:48,000 --> 00:06:51,000

Before Grant can try his mythical seasickness cure

132

00:06:51,000 --> 00:06:54,000

Carrie and Tori need a pre-hypnosis baseline.

133

00:06:54,000 --> 00:06:57,000

Come on, I want to see you blow jumps.

134

00:06:57,000 --> 00:07:01,000

Alright, let's get us over with starting in 3, 2, 1.

135

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

Round and round he goes.

136

00:07:03,000 --> 00:07:04,000

Oh, he's soft.

137

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

Keep moving your head.

138

00:07:06,000 --> 00:07:09,000

Where his stomach stops, nobody knows.

139

00:07:09,000 --> 00:07:10,000

Here we go.

140

00:07:10,000 --> 00:07:11,000

Here we go.

141

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

Adam, boy.

142

00:07:13,000 --> 00:07:14,000

Yeah.

143

00:07:14,000 --> 00:07:15,000

Adam, boy.

144

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

Alright.

145

00:07:16,000 --> 00:07:18,000

Minute 1734.

146

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

So now they've got a baseline.

147

00:07:20,000 --> 00:07:24,000

1730, totally puked.

148

00:07:24,000 --> 00:07:29,000

Grant can begin testing the self-hypnotic solution for seasickness.

149

00:07:29,000 --> 00:07:32,000

How you feeling better?

150

00:07:32,000 --> 00:07:34,000

Not especially.

151

00:07:34,000 --> 00:07:35,000

Okay.

152

00:07:35,000 --> 00:07:39,000

Meanwhile, Carrie will test a self-hypnosis CD she found on the web

153

00:07:39,000 --> 00:07:43,000

that claims she'll be able to turn her brown eyes as green as Grant

154

00:07:43,000 --> 00:07:46,000

after a trip in the Chuck chair.

155

00:07:46,000 --> 00:07:48,000

I want to do this as scientifically as possible.

156

00:07:48,000 --> 00:07:50,000

So I've come to Coret Vision Center.

157

00:07:50,000 --> 00:07:53,000

They're going to take really close-up pictures of my eyes

158

00:07:53,000 --> 00:07:56,000

so that I have a baseline control for the experiment.

159

00:07:56,000 --> 00:07:59,000

I'll go through my self-hypnosis and then when I come back,

160

00:07:59,000 --> 00:08:02,000

we'll take pictures in the exact same way and do comparison

161

00:08:02,000 --> 00:08:05,000

to see if I was able to change the color of my eye.

162

00:08:05,000 --> 00:08:10,000

The final challenge the team will tackle is Adam's deep-seated

163

00:08:10,000 --> 00:08:13,000

and unfounded fear of bees.

164

00:08:13,000 --> 00:08:15,000

I don't know why.

165

00:08:15,000 --> 00:08:16,000

I've been stung plenty of times.

166

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

I'm not allergic.

167

00:08:17,000 --> 00:08:19,000

I just can't stand those things.

168

00:08:19,000 --> 00:08:20,000

They freak me out.

169

00:08:20,000 --> 00:08:23,000

And as always, the first step is a control

170

00:08:23,000 --> 00:08:27,000

to scientifically measure exactly how freaked out he gets.

171

00:08:27,000 --> 00:08:31,000

We have two instruments to measure Adam's stress level.

172

00:08:31,000 --> 00:08:34,000

The first is the pulse meter.

173

00:08:34,000 --> 00:08:37,000

And this is going to measure his heart rate.

174

00:08:37,000 --> 00:08:41,000

If he becomes frightened, his heart rate is going to increase

175

00:08:41,000 --> 00:08:42,000

and it's going to spike.

176

00:08:42,000 --> 00:08:44,000

We'll be able to see it here.

177

00:08:44,000 --> 00:08:47,000

The second piece of equipment is the galvanic skin response.

178

00:08:47,000 --> 00:08:49,000

Again, if he becomes frightened,

179

00:08:49,000 --> 00:08:51,000

he'll start to sweat a little bit

180

00:08:51,000 --> 00:08:55,000

and that will change that resistance measurement.

181

00:08:55,000 --> 00:08:57,000

To dial in on Adam's fear factor,

182

00:08:57,000 --> 00:09:00,000

he'll be spending 10 minutes with one arm

183

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

in his own personal Room 101.

184

00:09:03,000 --> 00:09:06,000

Oh, that's a lot.

185

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

Okay, heart rate spiking.

186

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

It's pretty obvious from the start

187

00:09:11,000 --> 00:09:14,000

Adam is showing serious signs of stress.

188

00:09:14,000 --> 00:09:17,000

Your heart rate jumped up about 20 points.

189

00:09:17,000 --> 00:09:20,000

And once Adam gets his arm inside the box of bees,

190

00:09:20,000 --> 00:09:23,000

the team don't need fancy equipment

191

00:09:23,000 --> 00:09:25,000

to measure his stress levels.

192

00:09:25,000 --> 00:09:27,000

There's your bleep.

193

00:09:27,000 --> 00:09:29,000

Okay, okay.

194

00:09:29,000 --> 00:09:31,000

You really are a great person.

195

00:09:31,000 --> 00:09:33,000

I'm not a great person.

196

00:09:34,000 --> 00:09:36,000

Okay, okay.

197

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

You really are afraid of bees, aren't you?

198

00:09:38,000 --> 00:09:39,000

I told you.

199

00:09:39,000 --> 00:09:41,000

I told you I'd do this for science

200

00:09:41,000 --> 00:09:43,000

and I told you I wouldn't like it one bit.

201

00:09:43,000 --> 00:09:45,000

The longest 10 minutes of Adam's life

202

00:09:45,000 --> 00:09:47,000

finally counts down.

203

00:09:48,000 --> 00:09:52,000

Three, two, one.

204

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

Oh, dang.

205

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

And Adam goes over the data percentages.

206

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

That 100% sucked.

207

00:10:00,000 --> 00:10:02,000

So with the baseline set,

208

00:10:02,000 --> 00:10:05,000

we move on to phase two, self-hypnosis.

209

00:10:05,000 --> 00:10:07,000

All right, buddy.

210

00:10:07,000 --> 00:10:09,000

This is the CD that you're going to listen to for a week

211

00:10:09,000 --> 00:10:12,000

and this will help you get over your fear of bees.

212

00:10:12,000 --> 00:10:14,000

Did you guys make this?

213

00:10:14,000 --> 00:10:15,000

We ordered it online.

214

00:10:15,000 --> 00:10:16,000

So you're in good hands.

215

00:10:16,000 --> 00:10:17,000

It's a professional.

216

00:10:17,000 --> 00:10:19,000

I didn't want to listen to you going,

217

00:10:19,000 --> 00:10:21,000

dude, it's totally okay.

218

00:10:21,000 --> 00:10:22,000

It's totally okay.

219

00:10:22,000 --> 00:10:23,000

It's totally okay.

220

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

I'm driving, it's totally okay.

221

00:10:25,000 --> 00:10:26,000

It's totally okay.

222

00:10:26,000 --> 00:10:27,000

After the break,

223

00:10:27,000 --> 00:10:31,000

Jamie and Adam get their teeth into the Hollywood hero myth.

224

00:10:31,000 --> 00:10:33,000

That was pretty solid.

225

00:10:33,000 --> 00:10:36,000

That was a nice macho funk.

226

00:10:47,000 --> 00:10:49,000

Jamie and Adam are testing the movie myth

227

00:10:49,000 --> 00:10:51,000

that diving onto a grenade

228

00:10:51,000 --> 00:10:53,000

will smother the blast

229

00:10:53,000 --> 00:10:55,000

and save your buddies.

230

00:10:56,000 --> 00:10:59,000

But with the neighbors likely to gripe about a grenade

231

00:10:59,000 --> 00:11:01,000

going off in the backyard,

232

00:11:01,000 --> 00:11:04,000

the team head for one of their favorite spots.

233

00:11:04,000 --> 00:11:06,000

When you want to blow up grenades,

234

00:11:06,000 --> 00:11:10,000

you've got to go to a place where they blow up grenades.

235

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

Like the Alameda County Sheriff's Department's bomb range.

236

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

That's where we are here.

237

00:11:15,000 --> 00:11:18,000

This place is a veritable mythbuster mecca.

238

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

Tori, Grant and Carrie came here to blow up their pants.

239

00:11:24,000 --> 00:11:26,000

Those are exploding pants.

240

00:11:26,000 --> 00:11:28,000

And Jamie and Adam

241

00:11:28,000 --> 00:11:30,000

You're going to paint your house with explosives?

242

00:11:30,000 --> 00:11:33,000

Have a little TNT party of their own.

243

00:11:34,000 --> 00:11:36,000

Get your pirate face on.

244

00:11:36,000 --> 00:11:39,000

We're about to shoot some cannons.

245

00:11:39,000 --> 00:11:41,000

And in the pirate special,

246

00:11:41,000 --> 00:11:43,000

Redbeard and Cap and Heidemann

247

00:11:43,000 --> 00:11:45,000

tested the myth that cannonball splinters

248

00:11:45,000 --> 00:11:48,000

are more deadly than the cannonball.

249

00:11:48,000 --> 00:11:51,000

But this time the guys are going gun-ho with grenades

250

00:11:51,000 --> 00:11:54,000

and the mythbusters turn to some old friends.

251

00:11:54,000 --> 00:11:56,000

Frank Doyle and J.D. Nelson

252

00:11:56,000 --> 00:11:59,000

for the crucial explosive ingredients.

253

00:11:59,000 --> 00:12:01,000

Alright, so what do we got?

254

00:12:01,000 --> 00:12:02,000

Okay.

255

00:12:02,000 --> 00:12:05,000

So if I pull the pin on one of these things,

256

00:12:05,000 --> 00:12:06,000

it's going to go off, right?

257

00:12:06,000 --> 00:12:08,000

No, Jamie, these are a nerd.

258

00:12:08,000 --> 00:12:11,000

We wouldn't trust Adam near the live ones.

259

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

But first, Adam can't resist testing a mini-myth.

260

00:12:14,000 --> 00:12:16,000

The thing I've always wondered is,

261

00:12:16,000 --> 00:12:19,000

can you really pull these out with your teeth?

262

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

It works in the movies, but how about real life?

263

00:12:23,000 --> 00:12:24,000

Ah!

264

00:12:24,000 --> 00:12:26,000

No, I don't think so.

265

00:12:28,000 --> 00:12:31,000

Why don't you do this when you have a perfectly good finger

266

00:12:31,000 --> 00:12:32,000

right over here?

267

00:12:32,000 --> 00:12:35,000

It requires over ten pounds of pressure

268

00:12:35,000 --> 00:12:36,000

to pull a grenade pin.

269

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

So this myth is busted, a bit like Adam's teeth.

270

00:12:40,000 --> 00:12:43,000

Seeing as Jamie and Adam's expertise in this field

271

00:12:43,000 --> 00:12:45,000

comes from the movies,

272

00:12:45,000 --> 00:12:48,000

why don't we start with a little Grenades 101?

273

00:12:48,000 --> 00:12:50,000

Now, what the heck are all these things?

274

00:12:50,000 --> 00:12:53,000

A hand grenade is basically a small, handheld explosive device.

275

00:12:53,000 --> 00:12:57,000

It's meant to be thrown, and after a certain delay,

276

00:12:57,000 --> 00:12:58,000

it goes off.

277

00:12:58,000 --> 00:13:00,000

And this is how they work.

278

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

As everyone knows, the pin comes out first.

279

00:13:03,000 --> 00:13:05,000

That releases the striker lever,

280

00:13:05,000 --> 00:13:07,000

which hits the percussion cap,

281

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

and that sets off the chemical fuse.

282

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

Finally, the detonator sparks the packed explosive material,

283

00:13:14,000 --> 00:13:15,000

there's a big boom,

284

00:13:15,000 --> 00:13:19,000

and the metal casing fragments into deadly shrapnel.

285

00:13:21,000 --> 00:13:25,000

So, if the M67 is going to be our grenade today,

286

00:13:25,000 --> 00:13:28,000

do we get to pull the pin and throw them?

287

00:13:28,000 --> 00:13:31,000

Well, we won't be doing that today for safety reasons.

288

00:13:31,000 --> 00:13:33,000

We'll have a very controlled situation,

289

00:13:33,000 --> 00:13:37,000

and I think it's a good time for JD and myself

290

00:13:37,000 --> 00:13:40,000

to go and prepare the actual grenades that we're going to use today.

291

00:13:42,000 --> 00:13:48,000

So while Control Freaks, Frank and JD, set up a remote firing system,

292

00:13:48,000 --> 00:13:50,000

let's start assembly-lining this thing.

293

00:13:50,000 --> 00:13:53,000

It's time to call for our movie extras,

294

00:13:53,000 --> 00:13:56,000

but our leading man can kick back in his trailer,

295

00:13:56,000 --> 00:13:58,000

as this test is the control.

296

00:13:58,000 --> 00:14:01,000

We are going to detonate one of our grenades

297

00:14:01,000 --> 00:14:03,000

without anything inhibiting it,

298

00:14:03,000 --> 00:14:06,000

and we're going to see what it does to our figures standing around it.

299

00:14:06,000 --> 00:14:10,000

Then we'll have a baseline comparison of damage

300

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

to compare all the other subsequent tests, too.

301

00:14:13,000 --> 00:14:16,000

As the director of this slice-of-movie mayhem,

302

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

Adam Corey graphs his stuntmen.

303

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

I am standing on the exact location

304

00:14:22,000 --> 00:14:25,000

where we're going to be detonating our series of grenade tests.

305

00:14:25,000 --> 00:14:28,000

The grenade is lethal within 15 feet

306

00:14:28,000 --> 00:14:32,000

and can cause injuries within 40 to 45 feet.

307

00:14:32,000 --> 00:14:36,000

The actors are placed at 5-foot intervals from the blast epicenter,

308

00:14:36,000 --> 00:14:39,000

and with everyone poised for action,

309

00:14:39,000 --> 00:14:42,000

JD brings the small package with the big boom.

310

00:14:42,000 --> 00:14:44,000

Okay, here it is.

311

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

Well, it goes right where that cone is.

312

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

With the live grenade in position,

313

00:14:49,000 --> 00:14:52,000

our experts clear the area and begin their preparation.

314

00:14:52,000 --> 00:14:57,000

We're going to be putting a blasting cap into the body of the grenade,

315

00:14:57,000 --> 00:15:00,000

into the explosive, running it by hard wire,

316

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

all the way back to the fire control point,

317

00:15:02,000 --> 00:15:06,000

where we will do the button-pushing and initiate the explosion.

318

00:15:06,000 --> 00:15:08,000

With the cameras ready to roll,

319

00:15:08,000 --> 00:15:11,000

Jamie and Adam hunker down in the bunker,

320

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

and with the system hot,

321

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

Burn the hole!

322

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

they call action.

323

00:15:17,000 --> 00:15:20,000

In three, two, one.

324

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

Boom!

325

00:15:22,000 --> 00:15:24,000

That was pretty solid.

326

00:15:24,000 --> 00:15:25,000

That was nice.

327

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

That was a nice macho funk.

328

00:15:27,000 --> 00:15:29,000

That really was.

329

00:15:29,000 --> 00:15:30,000

Whoa!

330

00:15:30,000 --> 00:15:32,000

And speaking of macho,

331

00:15:32,000 --> 00:15:36,000

the action actors look like they just shrugged off a grenade blast.

332

00:15:36,000 --> 00:15:40,000

But a closer look at the guy at 5 feet reveals the frightening truth.

333

00:15:40,000 --> 00:15:42,000

The telling part is a look at the backside.

334

00:15:42,000 --> 00:15:44,000

Wow!

335

00:15:44,000 --> 00:15:47,000

Little tiny fragments going all the way through the plywood.

336

00:15:47,000 --> 00:15:50,000

Yep, the fake blood department would have its hands full.

337

00:15:50,000 --> 00:15:53,000

But how about wooden actor number two?

338

00:15:53,000 --> 00:15:56,000

Well, he was 10 feet away,

339

00:15:56,000 --> 00:15:59,000

and his part in this movie is over.

340

00:15:59,000 --> 00:16:02,000

Right through the lung or the heart or something.

341

00:16:02,000 --> 00:16:06,000

Yeah, anything up in this K5 area like this,

342

00:16:06,000 --> 00:16:08,000

they're in real hurt city.

343

00:16:08,000 --> 00:16:11,000

And the body count for this scene continues to rise

344

00:16:11,000 --> 00:16:14,000

when they examine extra number three.

345

00:16:14,000 --> 00:16:15,000

Jamie, check it out man.

346

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

Same thing on number three.

347

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

Yep.

348

00:16:17,000 --> 00:16:19,000

One there, one there, one there.

349

00:16:19,000 --> 00:16:20,000

Down there, down there.

350

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

Up there.

351

00:16:21,000 --> 00:16:24,000

The fourth casualty was one of the cameras.

352

00:16:24,000 --> 00:16:27,000

And this piece of plexiglass,

353

00:16:27,000 --> 00:16:29,000

which was protecting a second camera,

354

00:16:29,000 --> 00:16:34,000

gives a further illustration of the lethal power of grenade shrapnel.

355

00:16:34,000 --> 00:16:35,000

Hey Adam.

356

00:16:35,000 --> 00:16:36,000

Yep.

357

00:16:36,000 --> 00:16:37,000

Check this out.

358

00:16:37,000 --> 00:16:40,000

This is more revealing than the dummies in some ways.

359

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

This was a brand spanking clean thing.

360

00:16:42,000 --> 00:16:44,000

I just stripped it before we put it in.

361

00:16:44,000 --> 00:16:47,000

And you know, on the dummies we can kind of see a lot of little flux,

362

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

but look at all of them here.

363

00:16:49,000 --> 00:16:51,000

They're just like dozens of tiny things.

364

00:16:51,000 --> 00:16:55,000

And each of those could potentially travel inches into your body.

365

00:16:55,000 --> 00:16:58,000

Well, Frank says that these are going like,

366

00:16:58,000 --> 00:17:01,000

you know, 20, 24,000 feet per second,

367

00:17:01,000 --> 00:17:03,000

even though they're minuscule.

368

00:17:03,000 --> 00:17:05,000

That's like 10 times the speed of a bullet.

369

00:17:05,000 --> 00:17:06,000

Yeah, yeah.

370

00:17:06,000 --> 00:17:07,000

And that's a difference.

371

00:17:07,000 --> 00:17:10,000

Like, you know, they may be smaller than bird shot even,

372

00:17:10,000 --> 00:17:12,000

but they're going like several times as fast.

373

00:17:12,000 --> 00:17:15,000

A shotgun only is like, you know, eight, nine,

374

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

nine hundred feet per second or so.

375

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

That's terrifying.

376

00:17:18,000 --> 00:17:21,000

This is exactly the kind of thing I'm interested in.

377

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

I wanted to see here.

378

00:17:23,000 --> 00:17:29,000

In the first place, the blast itself was somehow more powerful

379

00:17:29,000 --> 00:17:32,000

than some of the blasts that we've seen before,

380

00:17:32,000 --> 00:17:35,000

in the sense that it was a real like thunk.

381

00:17:35,000 --> 00:17:37,000

You could feel it in the ground.

382

00:17:37,000 --> 00:17:42,000

It was like guttural and like a real,

383

00:17:42,000 --> 00:17:45,000

wasn't a pop or anything or a big,

384

00:17:45,000 --> 00:17:46,000

or like that.

385

00:17:46,000 --> 00:17:48,000

It was a bang.

386

00:17:48,000 --> 00:17:51,000

I have a recommendation for how we proceed.

387

00:17:51,000 --> 00:17:54,000

Let's write down on the backs of the figures

388

00:17:54,000 --> 00:17:57,000

exactly how many hits all the way through

389

00:17:57,000 --> 00:17:59,000

that we got on each one.

390

00:17:59,000 --> 00:18:01,000

Then I'll spray paint them black again.

391

00:18:01,000 --> 00:18:02,000

So we go for the next test.

392

00:18:02,000 --> 00:18:03,000

We'll be able to count clean again,

393

00:18:03,000 --> 00:18:05,000

and we'll see if there's a drop in them.

394

00:18:05,000 --> 00:18:07,000

So after the first take,

395

00:18:07,000 --> 00:18:09,000

three of our actors have more holes in them

396

00:18:09,000 --> 00:18:11,000

than a bad B grade plot.

397

00:18:11,000 --> 00:18:13,000

The question now is,

398

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

will there be fewer fatalities

399

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

when our movie star takes a dive?

400

00:18:17,000 --> 00:18:19,000

Coming up.

401

00:18:19,000 --> 00:18:22,000

His tone of voice was sort of freaking me out.

402

00:18:22,000 --> 00:18:24,000

Did the voices in their head,

403

00:18:24,000 --> 00:18:26,000

phones make a difference?

404

00:18:26,000 --> 00:18:28,000

My body is strong.

405

00:18:28,000 --> 00:18:35,000

The mythbusters are once again going under for science.

406

00:18:35,000 --> 00:18:37,000

But hypnosis is not just the stuff

407

00:18:37,000 --> 00:18:41,000

of parlor tricks and B grade movie plots.

408

00:18:41,000 --> 00:18:44,000

Hypnotherapy, in conjunction with traditional medicine,

409

00:18:44,000 --> 00:18:46,000

has helped millions of people successfully

410

00:18:46,000 --> 00:18:48,000

battle wide-ranging games.

411

00:18:48,000 --> 00:18:51,000

The mythbusters are once again going under for science.

412

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

But hypnosis is not just the stuff of parlor tricks

413

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

and B grade movie plots.

414

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

Hypnotherapy, in conjunction with traditional medicine,

415

00:18:57,000 --> 00:19:00,000

helps people battle wide-ranging afflictions,

416

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

such as addiction, anorexia, and arthritis.

417

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

But for the next week,

418

00:19:07,000 --> 00:19:10,000

three self-hypnosis or auto-suggestion goals

419

00:19:10,000 --> 00:19:13,000

are being put to the test.

420

00:19:13,000 --> 00:19:16,000

Okay, so this is day one

421

00:19:16,000 --> 00:19:22,000

with my seasickness self-hypnosis CD.

422

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

As per the instructions on the box,

423

00:19:24,000 --> 00:19:27,000

you will listen to the disc once per day.

424

00:19:27,000 --> 00:19:29,000

Your body is strong.

425

00:19:29,000 --> 00:19:31,000

Your mind is strong.

426

00:19:31,000 --> 00:19:35,000

It can handle all kinds of situations.

427

00:19:35,000 --> 00:19:37,000

Grant.

428

00:19:37,000 --> 00:19:40,000

I really, really want this to work.

429

00:19:40,000 --> 00:19:45,000

I'm tired of being the seasickness guinea pig.

430

00:19:45,000 --> 00:19:50,000

I don't really have a whole lot of confidence in it working,

431

00:19:50,000 --> 00:19:55,000

but I am going to open my mind and give it a shot.

432

00:19:55,000 --> 00:19:59,000

While Grant is attempting what he thinks is an achievable goal,

433

00:19:59,000 --> 00:20:02,000

Carrie is at the far end of the hypnosis spectrum,

434

00:20:02,000 --> 00:20:07,000

with a far-fetched claim that by listening to her disc twice a day,

435

00:20:07,000 --> 00:20:09,000

she can change her eye color.

436

00:20:09,000 --> 00:20:14,000

Well, the hypnotist keeps saying that my subconscious

437

00:20:14,000 --> 00:20:18,000

is changing the amount of melanin in my eyes,

438

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

and I should keep looking in the mirror to see if they change.

439

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

And they will change because you have the power to change, Carrie.

440

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

His tone of voice was sort of freaking me out.

441

00:20:34,000 --> 00:20:36,000

Adam, happy with his eye color,

442

00:20:36,000 --> 00:20:38,000

has found a self-hypnosis CD

443

00:20:38,000 --> 00:20:42,000

that will supposedly help him get over his apiophobia.

444

00:20:42,000 --> 00:20:47,000

For those of you that don't speak geek, that's a fear of bees.

445

00:20:47,000 --> 00:20:50,000

And as he settles down for his first session,

446

00:20:50,000 --> 00:20:55,000

Adam the skeptic is going against type and thinking positive thoughts.

447

00:20:55,000 --> 00:21:00,000

I feel like there is some utility in concentrating on the thing

448

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

that one is phobic about,

449

00:21:02,000 --> 00:21:08,000

that me thinking seriously about bees sitting on my skin without stinging me

450

00:21:08,000 --> 00:21:12,000

will benefit and will show a benefit at the end of this week.

451

00:21:12,000 --> 00:21:15,000

Now, because watching the Mythbusters snooze

452

00:21:15,000 --> 00:21:18,000

doesn't make for Emmy award-winning TV,

453

00:21:18,000 --> 00:21:20,000

that's cut to the chase.

454

00:21:20,000 --> 00:21:24,000

All week Grant has been keeping up with his hypnosis schedule.

455

00:21:24,000 --> 00:21:27,000

But let's see if he can keep his stomach down.

456

00:21:27,000 --> 00:21:30,000

In three, two, one.

457

00:21:30,000 --> 00:21:33,000

Remember, before he embarked on self-hypnosis,

458

00:21:33,000 --> 00:21:35,000

he lasted just over 17 minutes.

459

00:21:35,000 --> 00:21:38,000

For the Myth to stand any chance of being confirmed,

460

00:21:38,000 --> 00:21:41,000

Grant has to go way past that.

461

00:21:41,000 --> 00:21:44,000

I'm really glad it's you that gets seasick, not us.

462

00:21:44,000 --> 00:21:46,000

But for total success,

463

00:21:46,000 --> 00:21:50,000

he'll have to keep his breakfast from seeing the light of day.

464

00:21:50,000 --> 00:21:53,000

I really want this to work.

465

00:21:53,000 --> 00:21:56,000

My body is strong.

466

00:21:56,000 --> 00:22:01,000

And it can handle all kinds of different situations.

467

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

Grant, using his self-taught hypnotic techniques,

468

00:22:04,000 --> 00:22:07,000

remains focused for over half an hour.

469

00:22:07,000 --> 00:22:10,000

And despite Torey's best efforts...

470

00:22:10,000 --> 00:22:13,000

Come on, Grant. We all want to see chunks.

471

00:22:13,000 --> 00:22:17,000

Our very own Duke of Puk is staying strong.

472

00:22:17,000 --> 00:22:19,000

You realize if this test works,

473

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

we're going to be standing here for a very long time.

474

00:22:21,000 --> 00:22:25,000

But on the 34-minute mark, the wait is over.

475

00:22:25,000 --> 00:22:28,000

And all Green Gill's Grant is back.

476

00:22:28,000 --> 00:22:30,000

Okay, stop. Let's...

477

00:22:30,000 --> 00:22:32,000

Stop. Stop. Stop.

478

00:22:32,000 --> 00:22:34,000

I can't do this anymore.

479

00:22:34,000 --> 00:22:37,000

So the self-hypnosis technique delayed the inevitable,

480

00:22:37,000 --> 00:22:40,000

but failed to outright cure his seasickness.

481

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

I'm not sure if I'll ever be cured of seasickness,

482

00:22:44,000 --> 00:22:51,000

but what I do know is that the hypnosis CD did not cure him.

483

00:22:51,000 --> 00:22:55,000

While Grant recovers, it's time to look into Carrie's eyes.

484

00:22:55,000 --> 00:22:59,000

I'm back at UCSF for my follow-up appointment with the eye photographer,

485

00:22:59,000 --> 00:23:04,000

and I'm going to see if my week of self-hypnosis has changed the color of my eyes.

486

00:23:04,000 --> 00:23:08,000

But despite a daily hour and a half of self-hypnosis,

487

00:23:08,000 --> 00:23:11,000

Carrie's eyes stubbornly remain breath.

488

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

So in your professional opinion,

489

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

did I change the color of my eyes through self-hypnosis?

490

00:23:16,000 --> 00:23:20,000

I would have to say that they're unchanged, unfortunately.

491

00:23:20,000 --> 00:23:24,000

Despite her best efforts, it's a result Carrie was expecting.

492

00:23:24,000 --> 00:23:28,000

But is it even possible to change the color of your eyes?

493

00:23:28,000 --> 00:23:34,000

Well, you know, certainly there are certain drugs and chemicals

494

00:23:34,000 --> 00:23:37,000

that will change eye color.

495

00:23:37,000 --> 00:23:41,000

So it's certainly possible for eye color to change,

496

00:23:41,000 --> 00:23:47,000

but usually that has to do with some substance that's been either put onto the eye

497

00:23:47,000 --> 00:23:52,000

or something that's actually changing the metabolism of the cell.

498

00:23:52,000 --> 00:23:55,000

So, you know, certainly it's possible to change eye color.

499

00:23:55,000 --> 00:23:59,000

I'm just not quite sure how you'd achieve it through hypnosis.

500

00:23:59,000 --> 00:24:01,000

So I guess this one's busted.

501

00:24:01,000 --> 00:24:03,000

I'm afraid it is.

502

00:24:03,000 --> 00:24:07,000

Okay, last but not least is Adam our resident skeptic.

503

00:24:07,000 --> 00:24:10,000

The self-hypnosis of CD is total bunk.

504

00:24:10,000 --> 00:24:12,000

It's snake oil, as far as I'm concerned.

505

00:24:12,000 --> 00:24:15,000

In his baseline test, Adam's heart rate,

506

00:24:15,000 --> 00:24:19,000

galvanic skin response, and colorful vocabulary

507

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

confirmed he's terrified of bees.

508

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

The question is, after a solid week of listening to his self-hypnosis CD,

509

00:24:28,000 --> 00:24:32,000

will he fare any better when faced with the dreaded bee box?

510

00:24:32,000 --> 00:24:34,000

How are you feeling compared to last time?

511

00:24:34,000 --> 00:24:37,000

I'm feeling a little better than I did last time.

512

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

Apparently you're lying.

513

00:24:41,000 --> 00:24:42,000

Doesn't look like it.

514

00:24:42,000 --> 00:24:46,000

Adam's trying to chuff it out, but the numbers don't lie.

515

00:24:46,000 --> 00:24:52,000

His heart rate and stress levels are buzzing at the same high rates as the baseline test.

516

00:24:52,000 --> 00:24:54,000

Oh, none of them landed on me.

517

00:24:54,000 --> 00:24:57,000

And a few close encounters of the flying kind

518

00:24:57,000 --> 00:25:02,000

prove that ten minutes with the bees is still ten minutes of torture,

519

00:25:02,000 --> 00:25:04,000

which leaves just one conclusion.

520

00:25:05,000 --> 00:25:08,000

Okay guys, self-hypnosis, what's a verdict?

521

00:25:08,000 --> 00:25:10,000

I think it's obvious that this is busted.

522

00:25:10,000 --> 00:25:13,000

Yeah, but you never believed that your eyes could change color.

523

00:25:13,000 --> 00:25:16,000

True, but I followed all the instructions on the CD

524

00:25:16,000 --> 00:25:19,000

and I really put my mind into it and still got nothing,

525

00:25:19,000 --> 00:25:21,000

and Adam got the same result.

526

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

I know that's too bad, because even after his hypnosis, he's still afraid of bees.

527

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

Well, I think mine is the most telling result.

528

00:25:27,000 --> 00:25:29,000

And you really wanted it to work.

529

00:25:29,000 --> 00:25:32,000

Yeah, I wanted it to work, I thought it could work,

530

00:25:32,000 --> 00:25:36,000

and there was a delay in the seasickness, but ultimately it failed to cure me.

531

00:25:36,000 --> 00:25:38,000

Yep, you still blew chunks.

532

00:25:38,000 --> 00:25:40,000

So this one's busted.

533

00:25:40,000 --> 00:25:42,000

Busted. Busted.

534

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

In the myth of the Hollywood hand-grenade hero,

535

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

Adam and Jamie are having a blast.

536

00:25:58,000 --> 00:26:02,000

A control test minus our Superman savior

537

00:26:02,000 --> 00:26:05,000

left three extras looking for work.

538

00:26:05,000 --> 00:26:07,000

One there, one there, one there,

539

00:26:07,000 --> 00:26:09,000

down there, down there. Up there.

540

00:26:09,000 --> 00:26:11,000

Now it's time for take two

541

00:26:11,000 --> 00:26:14,000

at our hero's straight out of central casting.

542

00:26:14,000 --> 00:26:17,000

Hey guys, look out!

543

00:26:17,000 --> 00:26:20,000

A grenade has landed near you.

544

00:26:20,000 --> 00:26:22,000

Allow me to be your savior.

545

00:26:22,000 --> 00:26:23,000

You got the bag?

546

00:26:23,000 --> 00:26:24,000

Uh-huh.

547

00:26:29,000 --> 00:26:32,000

This is our hero right here,

548

00:26:32,000 --> 00:26:37,000

and it should provide a fantastic testing medium

549

00:26:37,000 --> 00:26:41,000

to show what kind of resistance the body will provide

550

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

to the fragmentation from a grenade

551

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

and how much it'll protect your body standing around you.

552

00:26:46,000 --> 00:26:49,000

Well, all of our figures are ready to go,

553

00:26:49,000 --> 00:26:51,000

so all that's left is to lay the charge.

554

00:26:51,000 --> 00:26:54,000

We'll clear out and wait for your guys ready to go.

555

00:26:54,000 --> 00:26:56,000

It won't take very long. We're all set.

556

00:26:56,000 --> 00:26:57,000

Excellent.

557

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

Our leading man is laid on the grenade,

558

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

his body and the myth on the line.

559

00:27:03,000 --> 00:27:05,000

If his three supporting actors survive,

560

00:27:05,000 --> 00:27:08,000

this tall tale will be confirmed.

561

00:27:13,000 --> 00:27:15,000

It's worth pausing for a second to talk about

562

00:27:15,000 --> 00:27:17,000

the origin of the word grenade.

563

00:27:17,000 --> 00:27:20,000

Well sure, it comes from the French word for pomegranate,

564

00:27:20,000 --> 00:27:22,000

which is a granate.

565

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

Does a grenade look anything like a pomegranate?

566

00:27:25,000 --> 00:27:28,000

Well, not now, but in the early days they were larger,

567

00:27:28,000 --> 00:27:30,000

they were about the same size as a pomegranate,

568

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

and they were filled with shot that was very similar

569

00:27:33,000 --> 00:27:34,000

to pomegranate seeds.

570

00:27:34,000 --> 00:27:36,000

Oh, cool.

571

00:27:36,000 --> 00:27:40,000

Well, this is it. Hollywood on trial once again.

572

00:27:40,000 --> 00:27:42,000

Now, if the movies are to be believed,

573

00:27:42,000 --> 00:27:45,000

our hero stuntman has to absorb the full impact of the grenade.

574

00:27:45,000 --> 00:27:47,000

He has to save all his mates.

575

00:27:47,000 --> 00:27:51,000

In three, two, one.

576

00:27:53,000 --> 00:27:55,000

That was brutal.

577

00:27:55,000 --> 00:27:56,000

Well, one thing's for sure,

578

00:27:56,000 --> 00:28:00,000

there'll be no happy ending for this celluloid savior.

579

00:28:00,000 --> 00:28:03,000

He did not have a good day. He was a hero.

580

00:28:04,000 --> 00:28:07,000

Yep, our hero's role has been cut short,

581

00:28:07,000 --> 00:28:11,000

but did his selfless act save the cast of cutouts?

582

00:28:11,000 --> 00:28:14,000

There's a significant chunk out of the front here,

583

00:28:14,000 --> 00:28:22,000

but out of the back, I see one, two, three, four.

584

00:28:22,000 --> 00:28:24,000

Yeah, just four. That's it.

585

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

So, Wooden Actor number one took ten fewer hits

586

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

than the control blast.

587

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

But how bad were the splinters?

588

00:28:32,000 --> 00:28:34,000

This injury right here is very telling,

589

00:28:34,000 --> 00:28:40,000

because what it shows us is that while it looks like a lot here,

590

00:28:40,000 --> 00:28:43,000

we look around on the backside and there's not a mark.

591

00:28:43,000 --> 00:28:48,000

In the previous test, without anything over the grenade at all,

592

00:28:48,000 --> 00:28:51,000

if we saw a hole in the front, we saw a hole in the back.

593

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

So it's clearly slowing down the velocity of the projectiles

594

00:28:55,000 --> 00:28:57,000

coming off of the grenade.

595

00:28:57,000 --> 00:28:59,000

And the guy at ten feet?

596

00:28:59,000 --> 00:29:01,000

Well, look at that.

597

00:29:01,000 --> 00:29:03,000

I don't see a single one.

598

00:29:03,000 --> 00:29:06,000

This looks like he might have really saved his buddies here.

599

00:29:06,000 --> 00:29:08,000

There's no doubt about it.

600

00:29:08,000 --> 00:29:11,000

This movie myth is looking confirmed.

601

00:29:11,000 --> 00:29:13,000

Well, there you go.

602

00:29:13,000 --> 00:29:15,000

I'm pretty amazed.

603

00:29:15,000 --> 00:29:20,000

I wasn't expecting to see such a definitive result.

604

00:29:20,000 --> 00:29:23,000

Of the eight figures we had standing around here,

605

00:29:23,000 --> 00:29:25,000

when our hero jumped on the grenade,

606

00:29:25,000 --> 00:29:28,000

only his buddy who was five feet away,

607

00:29:28,000 --> 00:29:31,000

Buddy number one, sustained any real damage.

608

00:29:31,000 --> 00:29:34,000

And most of that was to his legs.

609

00:29:34,000 --> 00:29:37,000

Buddies number two and three are effectively unscathed,

610

00:29:37,000 --> 00:29:39,000

as are four through eight.

611

00:29:39,000 --> 00:29:41,000

So the rest of the cast survived.

612

00:29:41,000 --> 00:29:44,000

Unfortunately, our action hero from now on

613

00:29:44,000 --> 00:29:47,000

will only be able to play bit parts.

614

00:29:59,000 --> 00:30:01,000

Cally started it.

615

00:30:01,000 --> 00:30:04,000

Adam and Jamie investigated it.

616

00:30:04,000 --> 00:30:06,000

That's a much more vigorous reaction.

617

00:30:06,000 --> 00:30:08,000

And then they rubbed Goldberg in.

618

00:30:08,000 --> 00:30:12,000

But incredibly, the foamy fountain is yet to run dry.

619

00:30:12,000 --> 00:30:14,000

Whoa, hey!

620

00:30:14,000 --> 00:30:15,000

There it is.

621

00:30:15,000 --> 00:30:17,000

Diet Coke and Mentos again?

622

00:30:17,000 --> 00:30:19,000

Are you kidding me?

623

00:30:19,000 --> 00:30:22,000

Come on, is this phenomenon not over yet?

624

00:30:22,000 --> 00:30:24,000

Well, I know we've done it a lot,

625

00:30:24,000 --> 00:30:26,000

but there's this video that's going around the internet.

626

00:30:26,000 --> 00:30:29,000

A guy eats Mentos, drinks Diet Coke,

627

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

and then passes out because his stomach supposedly explodes.

628

00:30:33,000 --> 00:30:35,000

You know we have to test that.

629

00:30:35,000 --> 00:30:38,000

I'm not sure if you can tell, but I'm not sure.

630

00:30:38,000 --> 00:30:41,000

I'm just trying to blow up some stomachs with Diet Coke and Mentos.

631

00:30:41,000 --> 00:30:43,000

Yeah, nice.

632

00:31:06,000 --> 00:31:12,000

Thanks to the mythbusters, there's no mystery to the cola cascade.

633

00:31:12,000 --> 00:31:18,000

But like old faithful, this gassy geyser just keeps on keeping on.

634

00:31:18,000 --> 00:31:19,000

There you go.

635

00:31:19,000 --> 00:31:20,000

That's so cool.

636

00:31:20,000 --> 00:31:22,000

I've never actually done that before.

637

00:31:22,000 --> 00:31:23,000

Really?

638

00:31:23,000 --> 00:31:24,000

No.

639

00:31:24,000 --> 00:31:26,000

You know, that wasn't even as high as I've seen them.

640

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

God, I've seen like 30 feet.

641

00:31:28,000 --> 00:31:32,000

But today we're asking, can the fizzy fountain burst your belly?

642

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

Here's a sentence you don't hear every day.

643

00:31:34,000 --> 00:31:37,000

The next step is a spot of stomach shopping.

644

00:31:37,000 --> 00:31:42,000

And seeing as Carrie thinks awful is awful, guess who gets to go?

645

00:31:42,000 --> 00:31:46,000

Of course, I'm the one they pick when there's anything nasty to pick up.

646

00:31:46,000 --> 00:31:48,000

That's the stomach.

647

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

It looks like it's full of stuff.

648

00:31:51,000 --> 00:31:54,000

Yeah, let's get some residue in it.

649

00:31:54,000 --> 00:31:57,000

I'm not sure if that's bile or what coming out of there,

650

00:31:57,000 --> 00:32:01,000

but that yellow substance is, that looks pretty nasty.

651

00:32:01,000 --> 00:32:04,000

I am so glad I already ate lunch.

652

00:32:04,000 --> 00:32:09,000

All right, sir, can you please wrap up for gooey gnarly stomachs to go?

653

00:32:09,000 --> 00:32:11,000

First mission accomplished.

654

00:32:11,000 --> 00:32:15,000

A little bit grosser than I expected, but I think I know how they work.

655

00:32:15,000 --> 00:32:20,000

Next step, back to the shop so I can outdo the grossness and try to blur these up.

656

00:32:20,000 --> 00:32:25,000

Inside at Indigestion HQ, oh, jeez!

657

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

The team's first job is to prepare these pig stomachs for their diet of Diet Coke and Mentos.

658

00:32:35,000 --> 00:32:38,000

Look at the ooze, that's cool.

659

00:32:38,000 --> 00:32:42,000

First, they have to drain the bellies of a mystery jelly.

660

00:32:42,000 --> 00:32:45,000

That is an amazingly bad smell.

661

00:32:52,000 --> 00:32:54,000

Oh my God!

662

00:32:55,000 --> 00:33:01,000

Oh, yeah, after you haven't eaten for a while, you know, and you're just throwing up bile, this is just bile.

663

00:33:01,000 --> 00:33:06,000

And speaking of throwing up, trust Tori to take it too far.

664

00:33:11,000 --> 00:33:12,000

You okay?

665

00:33:12,000 --> 00:33:13,000

Yep, the...

666

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

Hi, Carrie.

667

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

Carrie, the cable ties.

668

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

Come to me, darling.

669

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

Carrie, the cable ties.

670

00:33:18,000 --> 00:33:19,000

Come on, Carrie.

671

00:33:19,000 --> 00:33:21,000

Carrie, come on.

672

00:33:21,000 --> 00:33:24,000

Never leave your position, Carrie.

673

00:33:26,000 --> 00:33:28,000

Ahem.

674

00:33:29,000 --> 00:33:36,000

With the pig and Carrie's stomach empty, the team can finish rigging out our test subject with his internal organ.

675

00:33:36,000 --> 00:33:42,000

And to ensure they replicate the myth's circumstances accurately, Carrie has a plan.

676

00:33:42,000 --> 00:33:48,000

We want to make this situation as realistic as possible so we need our stomach to have stomach acids.

677

00:33:48,000 --> 00:33:53,000

We didn't want just the dead bile that had been sitting in there, so we drained out the stomach,

678

00:33:53,000 --> 00:33:59,000

and now we're going to add a fluid that will have the same acidity as a stomach after it's added a little food.

679

00:33:59,000 --> 00:34:02,000

Okay, that operation's complete.

680

00:34:02,000 --> 00:34:03,000

Nice work, doctor.

681

00:34:03,000 --> 00:34:04,000

Thank you, doctor.

682

00:34:04,000 --> 00:34:07,000

I think the patient's gonna recover just nicely.

683

00:34:07,000 --> 00:34:14,000

With the deaf touch of amateur butchers, Dr. Imahara and Dr. Baleici have added the acid.

684

00:34:14,000 --> 00:34:16,000

It's my flesh bagpipe.

685

00:34:16,000 --> 00:34:19,000

But the unfortunate patient ain't done yet.

686

00:34:19,000 --> 00:34:27,000

They rig his esophagus with a tube and valve system so the team can simulate the delivery of a lunch of candy and cola.

687

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

Nasty stuff!

688

00:34:29,000 --> 00:34:38,000

Okay, so this is the experimental test setup for the myth that if you drink a bunch of Diet Coke and eat a bunch of Mentos, your stomach will explode.

689

00:34:38,000 --> 00:34:43,000

We have standing in for the human stomach, a pig stomach, which is a good analog for that.

690

00:34:43,000 --> 00:34:46,000

One of the ends is clamped off with a hemostat.

691

00:34:46,000 --> 00:35:00,000

Inside the stomach, we have a dilution of muriatic acid, and that is diluted to a pH of between 2 and 3 to match what your normal human stomach would have.

692

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

Going into the stomach, we have a plastic tube that goes up to this junction.

693

00:35:05,000 --> 00:35:09,000

The idea is that we put the Diet Coke in from one side.

694

00:35:09,000 --> 00:35:12,000

The bottle goes up here, we squeeze it, the coke goes down the tube.

695

00:35:12,000 --> 00:35:15,000

After the Diet Coke's in, we clamp this off.

696

00:35:15,000 --> 00:35:18,000

Then, this is the Mentos side.

697

00:35:18,000 --> 00:35:23,000

We'll drop a nut in with this magnet in place, and then load the Mentos one by one.

698

00:35:23,000 --> 00:35:30,000

When we're ready to trigger, we pull the magnet away, all the Mentos go in the stomach at once.

699

00:35:30,000 --> 00:35:40,000

This will have been clamped off, and hopefully the Mentos and Diet Coke concoction will expand and expand and expand, and...

700

00:35:41,000 --> 00:35:43,000

Or shall we think?

701

00:35:43,000 --> 00:35:44,000

Release!

702

00:35:44,000 --> 00:35:45,000

Next on MythBusters.

703

00:35:48,000 --> 00:35:52,000

Carrie Grant and Tori bloat and then blow up their belly.

704

00:35:52,000 --> 00:35:54,000

That got big!

705

00:36:11,000 --> 00:36:19,000

Supposedly after lunching on Diet Coke and Mentos, this guy ended up in ER with a torn tummy.

706

00:36:19,000 --> 00:36:27,000

To find the truth, the team are about to feed this pig's stomach a liter of Diet Coke and a handful of Mentos.

707

00:36:27,000 --> 00:36:29,000

What do you think is going to happen?

708

00:36:29,000 --> 00:36:32,000

I don't think it's going to explode.

709

00:36:32,000 --> 00:36:33,000

Really?

710

00:36:33,000 --> 00:36:35,000

Yeah, 100% it's not going to explode.

711

00:36:35,000 --> 00:36:42,000

I think they'll be a huge reaction. They'll probably come up here, and more likely they'll be rig failure before there's going to be stomach failure.

712

00:36:42,000 --> 00:36:45,000

Okay, the first ingredient is the Diet Coke.

713

00:36:45,000 --> 00:36:52,000

And when our skeletal friend guzzles the gassy soda, his stomach bloats out so much, Grant has a change of heart.

714

00:36:52,000 --> 00:36:53,000

Whoa!

715

00:36:55,000 --> 00:36:57,000

I'm revising my estimates!

716

00:36:57,000 --> 00:36:59,000

That looks uncomfortable.

717

00:36:59,000 --> 00:37:02,000

Next, the Mentos are dropped into a holding tube.

718

00:37:02,000 --> 00:37:04,000

Okay, all seven are in.

719

00:37:04,000 --> 00:37:06,000

Clamp it.

720

00:37:06,000 --> 00:37:07,000

Clamping.

721

00:37:07,000 --> 00:37:09,000

Here we go, with a belly go ballistic.

722

00:37:09,000 --> 00:37:12,000

Three, two, one!

723

00:37:14,000 --> 00:37:15,000

What happened?

724

00:37:15,000 --> 00:37:16,000

Did it go?

725

00:37:16,000 --> 00:37:17,000

Nothing happened.

726

00:37:17,000 --> 00:37:20,000

Did they make them down? Did it get in?

727

00:37:20,000 --> 00:37:22,000

I thought there was supposed to be a reaction. What's going on here?

728

00:37:22,000 --> 00:37:23,000

Do you see anything?

729

00:37:23,000 --> 00:37:29,000

Uh, nope. The Mentos are definitely in there, but where's the famous foamy fountain?

730

00:37:29,000 --> 00:37:33,000

Our soda super sluce are on it.

731

00:37:33,000 --> 00:37:43,000

Let's go over the things that are different between the experiment we just did and the reaction we know which is really explosive, which is dropping the Mentos into the two liter bottle.

732

00:37:43,000 --> 00:37:50,000

Okay, well first thing is we're actually pouring it into the stomach and it's foaming up a lot.

733

00:37:50,000 --> 00:37:56,000

And when you normally do this experiment, you're adding the Mentos to the soda, which is still in the bottle.

734

00:37:56,000 --> 00:38:00,000

And the other thing that's different about the stomach, it has the muriatic acid in it.

735

00:38:00,000 --> 00:38:05,000

So that might be doing something to change the reaction between the Diet Coke and the Mentos.

736

00:38:05,000 --> 00:38:10,000

Their plan is to use a process of elimination to work out what's happening.

737

00:38:10,000 --> 00:38:15,000

At a few simple bench tests later, they confirm the acid is not the culprit.

738

00:38:15,000 --> 00:38:21,000

Okay, so the muriatic acid doesn't seem to be having an effect on the Mentos and Diet Coke reaction.

739

00:38:21,000 --> 00:38:27,000

Next, they look into their method of squeezing the bottle to pour the Coke quickly into the stomach.

740

00:38:27,000 --> 00:38:28,000

And it's going down.

741

00:38:28,000 --> 00:38:31,000

No, wait. No, it's going down.

742

00:38:31,000 --> 00:38:33,000

Yep, there's your problem.

743

00:38:33,000 --> 00:38:37,000

Okay, so the pour is what's killing all our carbonation and that's preventing the reaction.

744

00:38:37,000 --> 00:38:39,000

Yeah, totally.

745

00:38:39,000 --> 00:38:47,000

By copying the video where our guy guzzles his cola quickly, the tests have shown the soda loses most of its CO₂.

746

00:38:47,000 --> 00:38:54,000

So they're going to redo the test, trying to retain the fizz with a slow controlled pour.

747

00:38:54,000 --> 00:38:58,000

And because the stomach's opaque, they can't see what's going on.

748

00:38:58,000 --> 00:39:04,000

So we've replaced the pig stomach with a translucent balloon.

749

00:39:04,000 --> 00:39:16,000

And that really gives a better idea of how much liquid's going in, if we're generating a lot of gas or hopefully what's going on.

750

00:39:16,000 --> 00:39:20,000

But despite the gentle pour, the result is the same.

751

00:39:20,000 --> 00:39:26,000

Through the clear balloon, you can see the soda sizzling before the Mentos have even been added.

752

00:39:26,000 --> 00:39:33,000

No matter how slow the pour you have, any agitation is going to release all of this foam.

753

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

Which confirms the simple act of drinking the Diet Coke releases the CO₂.

754

00:39:38,000 --> 00:39:42,000

And without its fizz, the candy and cola can't do the biz.

755

00:39:42,000 --> 00:39:49,000

I think that we've conclusively proven that if you eat Mentos and drink Diet Coke, you're not going to explode your stomach.

756

00:39:49,000 --> 00:39:55,000

For the sake of science, I think we should continue on and try and eliminate some of these variables.

757

00:39:55,000 --> 00:40:03,000

Well one way we can get rid of the loss of gas through the pour is we just go directly to the bottle and have the Mentos drop into the bottle.

758

00:40:03,000 --> 00:40:07,000

So we're not actually agitating the Diet Coke as we're pouring.

759

00:40:07,000 --> 00:40:16,000

So the next setup is a completely unrealistic scenario, which involves dropping the Mentos into the Coke with the stomach already attached.

760

00:40:16,000 --> 00:40:23,000

Final stomach and Mentos experiment in three, two, one, release!

761

00:40:29,000 --> 00:40:31,000

It's like the New Year's Day parade!

762

00:40:31,000 --> 00:40:33,000

It's getting bigger!

763

00:40:33,000 --> 00:40:34,000

You know?

764

00:40:34,000 --> 00:40:37,000

God, can you imagine that's in your stomach?

765

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

But still, no explosion.

766

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

No explosion.

767

00:40:41,000 --> 00:40:45,000

But I guarantee he really threw up.

768

00:40:45,000 --> 00:40:46,000

But I want to see an explosion.

769

00:40:46,000 --> 00:40:49,000

I mean, how are we going to get one of these stomachs to blow up?

770

00:40:49,000 --> 00:40:50,000

Compressed air.

771

00:40:50,000 --> 00:40:51,000

Are you serious?

772

00:40:51,000 --> 00:40:52,000

Yeah!

773

00:40:54,000 --> 00:40:56,000

The myth is well and truly busted.

774

00:40:56,000 --> 00:40:58,000

But boys will be boys.

775

00:40:58,000 --> 00:41:00,000

They want a burst belly.

776

00:41:00,000 --> 00:41:06,000

This is 30 psi, compressed air, directly into the stomach.

777

00:41:06,000 --> 00:41:10,000

Three, two, one.

778

00:41:10,000 --> 00:41:12,000

Look at that gassy bloated feeling.

779

00:41:12,000 --> 00:41:13,000

Whoa!

780

00:41:16,000 --> 00:41:18,000

That wasn't very long.

781

00:41:18,000 --> 00:41:20,000

That got big!

782

00:41:20,000 --> 00:41:25,000

And if you don't want a trip to ER, don't go sucking on compressed air at home.

783

00:41:25,000 --> 00:41:32,000

But as for Diet Coke and Mentos, they're clearly not the explosive combo the internet would have us

believe.

784

00:41:32,000 --> 00:41:34,000

Well, that one's busted.

785

00:41:34,000 --> 00:41:36,000

Yeah, the myth and the pig stomach.

786

00:41:36,000 --> 00:41:40,000

So does that mean this Diet Coke and Mentos thing is finally over?

787

00:41:40,000 --> 00:41:43,000

Well, actually, I heard this one about this guy.

788

00:41:43,000 --> 00:41:45,000

He had a jet pack.

789

00:41:54,000 --> 00:41:58,000

Adam and Jamie have been blown away by the results of a movie myth.

790

00:41:58,000 --> 00:42:01,000

This looks like he might have really saved his buddies here.

791

00:42:01,000 --> 00:42:04,000

But the director hasn't called rap yet.

792

00:42:04,000 --> 00:42:08,000

The guys have a couple more Hollywood hero techniques to test.

793

00:42:09,000 --> 00:42:10,000

So what's next?

794

00:42:10,000 --> 00:42:16,000

Well, I'm thinking about this other Hollywood scenario I've seen where the hero doesn't dive on the grenade.

795

00:42:16,000 --> 00:42:20,000

He actually throws it into a bucket of water to protect those around him.

796

00:42:20,000 --> 00:42:22,000

Well, it makes sense to me.

797

00:42:22,000 --> 00:42:23,000

It's easy to test.

798

00:42:23,000 --> 00:42:26,000

I mean, get a bucket of water, drop a grenade in it, see what happens.

799

00:42:26,000 --> 00:42:32,000

Yeah, I'm curious to find out if it actually dampens the grenade blast or actually makes it worse or does nothing at all.

800

00:42:32,000 --> 00:42:36,000

Well, we have played around with explosives and water before.

801

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

Remember on another Hollywood myth, we tried to open a safe by filling it with water and setting off an explosive.

802

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

And it transmitted the energy quite well.

803

00:42:44,000 --> 00:42:45,000

It was very effective.

804

00:42:45,000 --> 00:42:47,000

I don't know what it'll do with a bucket.

805

00:42:47,000 --> 00:42:51,000

Wow! That worked beautifully!

806

00:42:51,000 --> 00:42:53,000

Well, let's give it a shot.

807

00:42:55,000 --> 00:43:00,000

Back at the range, Adam and Jamie have rigged the live grenade and dunked it in a bucket of water.

808

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

The question is, will this hand grenade hero technique actually dampen the blast?

809

00:43:05,000 --> 00:43:11,000

Or is it another example of Hollywood screenwriters rewriting the laws of physics?

810

00:43:11,000 --> 00:43:17,000

Based on what I know, I think this may well be our best technique of all the ones that we tried.

811

00:43:17,000 --> 00:43:23,000

Because we know that water resists things moving through it at high speed.

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00:43:23,000 --> 00:43:29,000

And, you know, these particles that are being sent out are really quite small.

813

00:43:29,000 --> 00:43:35,000

So, you know, I think the water may even be especially effective at slowing them down.

814

00:43:35,000 --> 00:43:38,000

In three, two, one!

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00:43:38,000 --> 00:43:42,000

Whoa! Dude! That was incredible!

816

00:43:45,000 --> 00:43:47,000

Is that part of our bucket? That's the bottom.

817

00:43:47,000 --> 00:43:48,000

Yeah.

818

00:43:51,000 --> 00:43:55,000

Well, the bucket of water definitely kicked the bucket.

819

00:43:55,000 --> 00:43:58,000

But the crew is looking in pretty good shape.

820

00:43:58,000 --> 00:44:03,000

Compared to the control test, the shrapnel damage seems superficial.

821

00:44:03,000 --> 00:44:05,000

Until they take a good look at this guy.

822

00:44:05,000 --> 00:44:08,000

Yeah, that's the first one we've seen through somebody's head.

823

00:44:08,000 --> 00:44:11,000

Which causes Adam to leap to a hasty conclusion.

824

00:44:11,000 --> 00:44:14,000

So, yeah, strangely, it's looking to me.

825

00:44:14,000 --> 00:44:20,000

Like jumping on a grenade is still best, and the bucket of water is kind of terrible.

826

00:44:21,000 --> 00:44:25,000

But Jamie gives that theory a bucketing.

827

00:44:25,000 --> 00:44:27,000

Actually, I kind of disagree about this one.

828

00:44:27,000 --> 00:44:35,000

Because all of the previous ones required that our hero be close to the actual grenade when it went off.

829

00:44:35,000 --> 00:44:38,000

If we've got a bucket of water, we drop it in the water,

830

00:44:38,000 --> 00:44:43,000

this greatly reduced the total number of hits greater than anything that we've done,

831

00:44:43,000 --> 00:44:47,000

and your hero might survive it.

832

00:44:48,000 --> 00:44:53,000

In the water safe story, the water turned out to be more efficient at transferring the blast pressure.

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00:44:53,000 --> 00:44:58,000

But in this case, we're more interested in the frag from the grenade casing,

834

00:44:58,000 --> 00:45:02,000

and the fact is that the water reduced the total amount of frag hits.

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00:45:02,000 --> 00:45:06,000

So that means that the blast was marginally more survivable.

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00:45:06,000 --> 00:45:10,000

So when it comes to saving your friends from an exploding grenade,

837

00:45:10,000 --> 00:45:13,000

the bucket approach really does hold water.

838

00:45:14,000 --> 00:45:19,000

And so to our final hand grenade hero technique.

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00:45:19,000 --> 00:45:21,000

It's a grenade. Get rid of it.

840

00:45:21,000 --> 00:45:29,000

In this tall tale on TV, our hero attempts to blunt the blast by dropping the ticking time bomb in cold storage.

841

00:45:35,000 --> 00:45:40,000

To replicate that small screen scene, the first thing they'll need is a fridge.

842

00:45:41,000 --> 00:45:44,000

What does it smell like, man? What do you keep in here?

843

00:45:44,000 --> 00:45:47,000

It smells like old food, I think.

844

00:45:47,000 --> 00:45:49,000

We need to spray it with bleach inside.

845

00:45:49,000 --> 00:45:52,000

No, no, no, no. We're going to clean it out with a grenade.

846

00:45:54,000 --> 00:45:57,000

Luckily, shop general Terry is having a cure-out,

847

00:45:57,000 --> 00:46:01,000

and his old beer fridge could really do with being put out of its misery.

848

00:46:03,000 --> 00:46:05,000

So once again, it's back to the range,

849

00:46:05,000 --> 00:46:09,000

this time for some gratuitous destruction of kitchen appliances.

850

00:46:09,000 --> 00:46:11,000

All in the name of science, of course.

851

00:46:12,000 --> 00:46:14,000

There's stuff in there. The beer.

852

00:46:14,000 --> 00:46:15,000

The fridge is in position.

853

00:46:15,000 --> 00:46:19,000

You got any diseases from here? You can cure yourself with a penicillin right here.

854

00:46:20,000 --> 00:46:27,000

And our cutout casts gather around as the bomb team rig the grenade inside the fridge, just like the film clip.

855

00:46:28,000 --> 00:46:33,000

Given what we've seen so far from all the tests, I actually think this fridge has got a better chance than anything else

856

00:46:33,000 --> 00:46:36,000

of saving everybody in the vicinity of that grenade.

857

00:46:36,000 --> 00:46:42,000

There's a big steel wall, you have an air chamber in there, you've got plastic, you've got fiberglass lining.

858

00:46:42,000 --> 00:46:45,000

And there's a lot of stuff in the way of all that fragmentation.

859

00:46:45,000 --> 00:46:48,000

I don't think this fridge will be anything but destroyed when we're done.

860

00:46:49,000 --> 00:46:51,000

But saving the fridge isn't the myth.

861

00:46:51,000 --> 00:46:54,000

Will it suppress the blast and save the hero?

862

00:46:55,000 --> 00:46:58,000

In three, two, one.

863

00:47:06,000 --> 00:47:11,000

The replay shows the silhouettes chilling out around the fridge, wondering what's for dinner.

864

00:47:13,000 --> 00:47:15,000

What else? Bangers and smash.

865

00:47:18,000 --> 00:47:24,000

Yeah, something tells me that this is maybe not the best of the options. What do you think?

866

00:47:24,000 --> 00:47:25,000

Wow.

867

00:47:28,000 --> 00:47:29,000

Oh man.

868

00:47:30,000 --> 00:47:31,000

It's pretty clear here.

869

00:47:31,000 --> 00:47:38,000

That's the two places you don't want to be standing are either in front or behind the fridge, but on the side, it's just fine.

870

00:47:39,000 --> 00:47:41,000

The key position is the actor directly in front.

871

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

As per the film clip, our hero runs away from the fridge and ducks down square onto the door.

872

00:47:49,000 --> 00:47:53,000

And as the high speed camera shows, that ain't exactly the best idea.

873

00:47:54,000 --> 00:47:56,000

It didn't fare too well with the battle of the refrigerator.

874

00:47:57,000 --> 00:47:59,000

No, no, number seven is totally gone.

875

00:47:59,000 --> 00:48:04,000

If you're thinking that a refrigerator is going to contain a grenade, you're totally wrong.

876

00:48:04,000 --> 00:48:06,000

I'm sitting on the evidence.

877

00:48:07,000 --> 00:48:09,000

But Adam, that's what you thought.

878

00:48:09,000 --> 00:48:13,000

With predictions as poor as that, you'd better let Jamie wrap this one up.

879

00:48:14,000 --> 00:48:18,000

Out of all the options that we had, this was clearly the worst idea.

880

00:48:18,000 --> 00:48:22,000

When you think about it, it makes sense. You've got a lot of metal there to create shrapnel.

881

00:48:22,000 --> 00:48:25,000

You don't have a lot of mass to resist it.

882

00:48:25,000 --> 00:48:29,000

You've got foam and other lightweight things, and it's awfully messy as well.

883

00:48:35,000 --> 00:48:40,000

So how did Hollywood, with its typical tenuous connection with reality, fare with this myth?

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00:48:40,000 --> 00:48:46,000

Surprisingly well. It turns out jumping on a grenade does quite well at limiting the grenade's frag.

885

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

And the bucket of water didn't do so bad either.

886

00:48:49,000 --> 00:48:56,000

Yeah, of all the ones we tested, I'd have to say putting a grenade into a refrigerator should be left on the cutting room floor.

887

00:48:56,000 --> 00:48:59,000

Yeah. So how are we going to wrap this up?

888

00:48:59,000 --> 00:49:02,000

Well, we have to say that jumping on a grenade is confirmed.

889

00:49:02,000 --> 00:49:05,000

Amazingly, we've gone after a Hollywood myth that ain't a myth at all.

890

00:49:05,000 --> 00:49:07,000

Okay, it's confirmed.

891

00:49:18,000 --> 00:49:24,000

Mythbusters merchandise, including the DVD game, is available at Dimmix and JB Hi-Fi.

