

1

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

Please, don't try anything that you're about to see us do at home. Ever.

2

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

This is either madness or presence.

3

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

Who are the Mythbusters?

4

00:01:03,000 --> 00:01:04,000

Yee-haw!

5

00:01:04,000 --> 00:01:05,000

Adam Savage

6

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

Time for science!

7

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

And Jamie Heineman

8

00:01:10,000 --> 00:01:12,000

Who's that beautiful or what?

9

00:01:12,000 --> 00:01:16,000

Between them more than 30 years of special effects experience.

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00:01:16,000 --> 00:01:18,000

It bleeds! Let's go!

11

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

Joining them, Grant Imahara

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

Don't give up on me now!

13

00:01:22,000 --> 00:01:23,000

Tori Bellegi

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00:01:23,000 --> 00:01:25,000

And that's how we like it.

15

00:01:25,000 --> 00:01:26,000

And Carrie Byron

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00:01:26,000 --> 00:01:29,000

High explosives and electricity, woo!

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00:01:29,000 --> 00:01:33,000

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

18

00:01:49,000 --> 00:01:50,000

Pirates!

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00:01:50,000 --> 00:01:51,000

Yee-haw!

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00:01:51,000 --> 00:01:54,000

Apparently we haven't done enough pirate myths.

21

00:01:54,000 --> 00:01:58,000

Who says we have an old run-em-strike through the scurvy door?

22

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

The fans!

23

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

In the lords of W-wait, wait, wait.

24

00:02:03,000 --> 00:02:07,000

Instead of killing them all, why don't we take a few more suggestions?

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00:02:07,000 --> 00:02:11,000

Roy and do a Mythbusters Pirate Special Number 2!

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00:02:11,000 --> 00:02:14,000

Another excuse to not bathe for weeks!

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00:02:17,000 --> 00:02:23,000

The last time the Mythbusters stopped bathing, four maritime myths walked the plank.

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00:02:23,000 --> 00:02:26,000

Slowing a fall with a knife sail hit the deck.

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00:02:27,000 --> 00:02:30,000

And rum as a stain remover was...

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00:02:30,000 --> 00:02:31,000

Ah! Busted!

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00:02:31,000 --> 00:02:36,000

So was the nautical notion that wooden shrapnel from a cannonball was lethal.

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

The team finally saw the light with eye patches and night vision aids.

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

That was like night and night!

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00:02:43,000 --> 00:02:47,000

But this veritable feast of fables merely scratched the surface.

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00:02:47,000 --> 00:02:51,000

Six, nine, seven, nine, eight, nine, nine, three.

36

00:02:51,000 --> 00:02:53,000

Ah, you threw off my count!

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00:02:53,000 --> 00:02:55,000

You're too much of a landlubber to be in that outfit.

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00:02:55,000 --> 00:02:56,000

You get seasick.

39

00:02:56,000 --> 00:02:58,000

I don't need to go on the sea for this technique,

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00:02:58,000 --> 00:03:00,000

so let me check this out.

41

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

It's a pirate submarine.

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

I take a rowboat and turn it upside down, and I get inside.

43

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

And I walk from the shore into the water,

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00:03:09,000 --> 00:03:11,000

and I see a sea of water.

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00:03:11,000 --> 00:03:13,000

I'm gonna take a boat out of the water,

46

00:03:13,000 --> 00:03:15,000

and I'm gonna take a boat out of the water,

47

00:03:15,000 --> 00:03:17,000

and I'm gonna put the shore into the water,

48

00:03:17,000 --> 00:03:22,000

and the rowboat keeps a pocket of air so I can make my way out to my enemies

49

00:03:22,000 --> 00:03:25,000

and deal with them in a way they would never see coming.

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00:03:25,000 --> 00:03:28,000

I'm not so sure about that. That sounds like a myth to me.

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00:03:28,000 --> 00:03:31,000

Well, that's what we're here to find out.

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

In need of a quick escape,

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00:03:33,000 --> 00:03:38,000

our irrepressible hero flips a rowboat to use as a submarine.

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

But in the real world,

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00:03:39,000 --> 00:03:44,000

would this fun-filled filmic fable go belly up?

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00:03:44,000 --> 00:03:46,000

What's the plan, Adam?

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00:03:46,000 --> 00:03:48,000

Well, I'm glad you've asked it, my non-pirate friend.

58

00:03:48,000 --> 00:03:50,000

I've thought about this at length,

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00:03:50,000 --> 00:03:53,000

and I've considered it since I get to sit on the sea.

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00:03:53,000 --> 00:03:57,000

I'd like to do this whole experiment in a swimming pool.

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00:03:57,000 --> 00:03:59,000

Okay, well, we'll get, like, some ramps

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00:03:59,000 --> 00:04:01,000

that we can walk down into the pool with,

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00:04:01,000 --> 00:04:03,000

and we gotta find a boat.

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

Exactly!

65

00:04:05,000 --> 00:04:10,000

Because of Adam's history of hurling on the high seas,

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00:04:10,000 --> 00:04:15,000

the team drop anchor in the calm waters of the Fremont Pool in Oakland.

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00:04:15,000 --> 00:04:17,000

Okay, if you can push.

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00:04:17,000 --> 00:04:19,000

On route, they stopped in at the rowboat store,

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00:04:19,000 --> 00:04:21,000

which means they have all they need

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00:04:21,000 --> 00:04:24,000

to recreate the mythical movie scene in question.

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00:04:24,000 --> 00:04:28,000

Using a ramp, they'll walk the upturn boat into the shallow end of the pool

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00:04:28,000 --> 00:04:33,000

before heading out of their depth to test its submarine-like properties.

73

00:04:33,000 --> 00:04:35,000

Oh, bloody hell, that's heavy.

74

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

Oh, my God. That's really heavy.

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00:04:38,000 --> 00:04:40,000

It's getting lighter.

76

00:04:40,000 --> 00:04:42,000

Okay.

77

00:04:42,000 --> 00:04:45,000

There we go. Let's move forward. Come on.

78

00:04:45,000 --> 00:04:47,000

With the weight supported on the water's surface,

79

00:04:47,000 --> 00:04:50,000

our potential submariners begin their descent.

80

00:04:50,000 --> 00:04:52,000

Okay, you're getting into deeper water.

81

00:04:52,000 --> 00:04:54,000

We'll find out if the boat comes with us.

82

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

Are you?

83

00:04:56,000 --> 00:04:58,000

Yeah.

84

00:04:58,000 --> 00:05:00,000

Okay.

85

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

That's the real problem, man.

86

00:05:06,000 --> 00:05:08,000

I feel like I'm floating.

87

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

Well, the first test went as well as could be expected.

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00:05:11,000 --> 00:05:16,000

There is indeed a breathable pocket of air in the boat,

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00:05:16,000 --> 00:05:18,000

but the boat didn't sink.

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00:05:18,000 --> 00:05:20,000

Well, that didn't work at all.

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00:05:20,000 --> 00:05:24,000

Nope, our not-so-stealthy pirates were left high and wet.

92

00:05:24,000 --> 00:05:26,000

But despite their failure,

93

00:05:26,000 --> 00:05:30,000

Adam isn't ready to consign this myth to Davy Jones' locker quite yet.

94

00:05:30,000 --> 00:05:33,000

Here's the problem. Humans are neutrally buoyant.

95

00:05:33,000 --> 00:05:35,000

We go into the water being mostly water.

96

00:05:35,000 --> 00:05:37,000

We don't weigh anything.

97

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

We're not applying any downforce to this boat.

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00:05:39,000 --> 00:05:42,000

But in our research, we turned up that pirates wore tons of crap

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00:05:42,000 --> 00:05:47,000

cutlasses and curasses and daggers and bunderbusses and all that sort of stuff.

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00:05:47,000 --> 00:05:51,000

Specifically, Yellowbird was supposed to have worn 30 pounds of stuff.

101

00:05:51,000 --> 00:05:53,000

30 pounds. There you go, buddy.

102

00:05:53,000 --> 00:05:56,000

So Jamie and I are going to put 30 pounds each on our bodies,

103

00:05:56,000 --> 00:05:59,000

try this test again, and see if we get any more of a positive result.

104

00:06:04,000 --> 00:06:08,000

Adam and Jamie with 60 pounds of pirate bling and weaponry

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00:06:08,000 --> 00:06:13,000

once again attempt to slide beneath the water in their makeshift submersible.

106

00:06:13,000 --> 00:06:16,000

But will the excess baggage help?

107

00:06:16,000 --> 00:06:18,000

Here we go again.

108

00:06:21,000 --> 00:06:24,000

While Adam and Jamie head for deeper waters,

109

00:06:24,000 --> 00:06:29,000

why don't we join Carrie Grant and Tori for a mythical pirate torture technique?

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00:06:30,000 --> 00:06:33,000

The myth we're working on is called sand necktie.

111

00:06:33,000 --> 00:06:35,000

Alright, that be pirate fashion?

112

00:06:35,000 --> 00:06:37,000

Actually, this one's about sand.

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

The idea is that pirates would bury their prisoners up to the neck,

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00:06:40,000 --> 00:06:44,000

at the shore, at low tide, so when the tide came in, they'd drown a torturous death.

115

00:06:44,000 --> 00:06:48,000

So what we're looking at is whether you can escape or not, right?

116

00:06:48,000 --> 00:06:49,000

Exactly.

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00:06:49,000 --> 00:06:52,000

It's a myth with a morbid fascination,

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00:06:52,000 --> 00:06:55,000

buried alive with water views.

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00:06:55,000 --> 00:07:00,000

But is the pirate sand necktie really a certain death sentence?

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

Or could you dig your way out of your vertical, shallow grave?

121

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

Okay, so what's the plan?

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

Well, some people think it's not the drowning that killed the prisoners,

123

00:07:09,000 --> 00:07:13,000

but the pressure of the sand that it would just, it would close in around you like a bow constrictor.

124

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

Oh, that sounds pretty easy.

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00:07:15,000 --> 00:07:20,000

So we go to the beach, we dig a big hole, we put Tori in, and see if he passes out.

126

00:07:20,000 --> 00:07:23,000

If he doesn't pass out, then we can see if he escapes.

127

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

Wait, don't I get to say this at all?

128

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

No.

129

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

No.

130

00:07:29,000 --> 00:07:35,000

So it's a simple plan that involves Cap'n Limpi and Cab'n Boy, Imahara,

131

00:07:35,000 --> 00:07:38,000

burying Tortuga Tori to the neck.

132

00:07:38,000 --> 00:07:40,000

Hey, there's the X mark spot.

133

00:07:40,000 --> 00:07:41,000

Oh, there's the treasure.

134

00:07:41,000 --> 00:07:42,000

There's the treasure.

135

00:07:42,000 --> 00:07:45,000

All right, start digging, mates.

136

00:07:45,000 --> 00:07:47,000

First up, a vertical grave.

137

00:07:47,000 --> 00:07:49,000

Why am I digging my own hole?

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00:07:49,000 --> 00:07:54,000

Well away from the rising tide for safety, from which Tori will attempt to escape.

139

00:07:54,000 --> 00:07:58,000

That's if he doesn't suffocate from the constriction first.

140

00:07:58,000 --> 00:08:03,000

I don't have time to deal with that ye olde pirate trick where you have to use a shovel to dig a hole.

141

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

We're in a modern world, we're modern people, and I'm a modern pirate.

142

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

I'm using heavy machinery.

143

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

You know, watching Carrie dig this ditch and knowing that I'm going to be up to my neck in sand,

144

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

it's kind of like watching her dig my grave.

145

00:08:22,000 --> 00:08:24,000

I hope I don't regret saying that.

146

00:08:24,000 --> 00:08:27,000

You could say Tori's got some grave doubts.

147

00:08:32,000 --> 00:08:34,000

Perfect, right up to your neck.

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00:08:34,000 --> 00:08:36,000

That's good.

149

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

As a precaution against hypothermia, Tori will wear a wetsuit.

150

00:08:40,000 --> 00:08:42,000

Why am I doing this?

151

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

Could somebody tell me?

152

00:08:44,000 --> 00:08:48,000

No, but how about giving us a prediction just the same?

153

00:08:48,000 --> 00:08:54,000

My prediction, I'm going to get buried up to my neck and I won't be able to move at all.

154

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

I don't think I'm going to be able to get out.

155

00:08:56,000 --> 00:09:00,000

I think I'm going to freak out, call everybody to come in, and dig me out.

156

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

You're going to be okay, you'll be fine.

157

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

We're going to be here the entire time.

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00:09:06,000 --> 00:09:08,000

Let's get this over with.

159

00:09:11,000 --> 00:09:13,000

What are we doing?

160

00:09:13,000 --> 00:09:15,000

Oh, he's up to his toes.

161

00:09:15,000 --> 00:09:17,000

Oh gee, he's up to his knee.

162

00:09:17,000 --> 00:09:23,000

With torturing Tori on the agenda, Cary and Grant are as happy as any pirate could be.

163

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

Strangely, Tori isn't having nearly as much fun.

164

00:09:26,000 --> 00:09:31,000

I'm probably going to check out a little bit, so don't be offended if I don't answer your questions.

165

00:09:31,000 --> 00:09:35,000

I'm trying to remain calm here.

166

00:09:35,000 --> 00:09:40,000

Calm breathing will be important, because as Sanjay explains,

167

00:09:40,000 --> 00:09:43,000

another name for this myth could be dead man's chest.

168

00:09:43,000 --> 00:09:46,000

Well, one of the biggest problems I can see is that as we breathe,

169

00:09:46,000 --> 00:09:51,000

our chest wall expands to allow our lungs to expand to have the air exchange happen in our lungs.

170

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

Well, with the sand up against his chest and all that pressure,

171

00:09:54,000 --> 00:09:58,000

he's not going to be able to take normal size breaths.

172

00:09:58,000 --> 00:10:06,000

It touches on all of the major phobias and fears, being buried alive, drowning, claustrophobia.

173

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

I mean, he's in a hole. The tide is coming in.

174

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

To imagine a pirate having to die this way, it's terrifying.

175

00:10:16,000 --> 00:10:18,000

Cue Captain Limpi.

176

00:10:18,000 --> 00:10:20,000

Oh, fiddle, we're up to your middle.

177

00:10:20,000 --> 00:10:22,000

And her buried alive verse.

178

00:10:22,000 --> 00:10:24,000

I'm in a bad pirate.

179

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

Sung to cheer up her captive audience.

180

00:10:27,000 --> 00:10:29,000

Oh heck, I'm up to his neck.

181

00:10:30,000 --> 00:10:34,000

Cary and Grant start the clock on Tori's escape attempt.

182

00:10:34,000 --> 00:10:36,000

Okay, I'm ready to go.

183

00:10:36,000 --> 00:10:39,000

All right, what I'm doing right now is I'm just wiggling my fingers

184

00:10:39,000 --> 00:10:45,000

just to kind of make room for my hand and see if I can actually free my arm.

185

00:10:49,000 --> 00:10:52,000

That's funny because it just doesn't look like you're moving at all.

186

00:10:52,000 --> 00:10:57,000

And that's a problem because in addition to his fear of small rodents and the color purple,

187

00:10:57,000 --> 00:11:00,000

it turns out he doesn't like being buried alive.

188

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

Okay, can you guys be ready with shovels?

189

00:11:01,000 --> 00:11:02,000

Yeah, yeah.

190

00:11:02,000 --> 00:11:07,000

Because I'm noticing that as I'm realizing that I can't move,

191

00:11:07,000 --> 00:11:09,000

that it's starting to freak me out.

192

00:11:16,000 --> 00:11:21,000

Coming up on Mythbuster, Adam and Jamie find out if their pirate bling will drag them down.

193

00:11:33,000 --> 00:11:37,000

It's the Mythbuster's pirate special sequel.

194

00:11:41,000 --> 00:11:46,000

Adam and Jamie have already failed to turn an upturned rowboat into a makeshift submarine.

195

00:11:46,000 --> 00:11:51,000

They're simply too buoyant and couldn't pull the boat to the bottom of the pool.

196

00:11:51,000 --> 00:11:57,000

But they're about to find out if 60 pounds of pirate accessories are enough ballast

197

00:11:57,000 --> 00:12:01,000

to sink them and their precious pocket of air.

198

00:12:02,000 --> 00:12:04,000

They're going to go up to push.

199

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

Okay, here we go.

200

00:12:06,000 --> 00:12:07,000

There we go.

201

00:12:07,000 --> 00:12:09,000

Okay, pull.

202

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

No.

203

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

That's not happening.

204

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

No, it's not happening.

205

00:12:17,000 --> 00:12:19,000

It's pretty much the same as the one the last time.

206

00:12:19,000 --> 00:12:21,000

Pretty much exactly the same.

207

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

Well, what do you think?

208

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

I think this one's a bust.

209

00:12:26,000 --> 00:12:27,000

Yeah.

210

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

I think this, you know, okay, so we added an extra of 60 pounds.

211

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

I think there's a lot more than 60 pounds of displacement here.

212

00:12:35,000 --> 00:12:37,000

I'd like to find out exactly how much.

213

00:12:37,000 --> 00:12:40,000

With the Myths sinking fast, the guys want some answers.

214

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

And to get them, they've got another testing month.

215

00:12:43,000 --> 00:12:48,000

And this time, wearing scuba gear, they're going down with the boat.

216

00:12:48,000 --> 00:12:52,000

We're going to anchor ourselves to the bottom of this pool, about 500 pounds of barbell weights.

217

00:12:52,000 --> 00:12:58,000

We're going to put the boat down there full of water and fill it with air and see if we can hold on to it

218

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

while it's gotten unfair for us to breathe it.

219

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

This will be the definitive test.

220

00:13:03,000 --> 00:13:08,000

If they can't hold down their pirate submarine with all that extra weight, the Myths are bust.

221

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

You ready to do this? Everything's set up.

222

00:13:14,000 --> 00:13:18,000

At the bottom, they anchor themselves to a quarter ton of barbells,

223

00:13:18,000 --> 00:13:23,000

grab hold of the boat, and then blow bubbles into the reservoir above them,

224

00:13:23,000 --> 00:13:27,000

filling it with the smallest of breathable air pockets.

225

00:13:27,000 --> 00:13:28,000

Bye.

226

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

They just can't hang on.

227

00:13:32,000 --> 00:13:37,000

And this Myth floats off to wherever busted Myths float off to.

228

00:13:37,000 --> 00:13:41,000

Okay, you see how we've got barbell weights hanging from the boat itself?

229

00:13:41,000 --> 00:13:47,000

We had to put 200 pounds onto the boat just to offset the buoyancy of the wood

230

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

before we even got airing to it.

231

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

That's how much buoyancy we're talking about.

232

00:13:51,000 --> 00:13:55,000

Then you put air in and Jamie and I couldn't hold on to it with 500 pounds.

233

00:13:56,000 --> 00:14:00,000

There is no way that under anything remotely approaching a normal circumstance,

234

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

a human could hold a breathable pocket of air by himself at the bottom of the ocean.

235

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

Well, something tells me we're not quite done yet though.

236

00:14:08,000 --> 00:14:09,000

Oh no.

237

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

Yes, they're going to appease the curiosity gods by running the numbers.

238

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

I think it's time to quantify just how much weight it's going to take to hold that boat down.

239

00:14:18,000 --> 00:14:21,000

The way we're going to find that out is by filling it with water and weighing,

240

00:14:21,000 --> 00:14:26,000

keeping track of the weight of the water that we put into it until it sinks.

241

00:14:26,000 --> 00:14:32,000

Okay, it's a complicated thing, but basically Adam and Jamie are going to flip this Myth on its head.

242

00:14:32,000 --> 00:14:40,000

By overcoming the boat's buoyancy, they'll know how much force or weight it would take to hold down a boat full of air.

243

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

So there's going to be a whole lot of bailing in reverse.

244

00:14:44,000 --> 00:14:45,000

Eight.

245

00:14:46,000 --> 00:14:49,000

Each of these buckets holds 40 pounds of water.

246

00:14:49,000 --> 00:14:50,000

40.

247

00:14:50,000 --> 00:14:54,000

And after 2000 pounds of H2O and barbells.

248

00:14:54,000 --> 00:14:55,000

Yeah, that's it.

249

00:14:55,000 --> 00:14:57,000

Now it's coming over the side over there.

250

00:14:57,000 --> 00:15:01,000

Adam and Jamie know exactly why this myth is sunk.

251

00:15:01,000 --> 00:15:06,000

All right, so it took 2000 pounds of water and barbell weights combined to sink this boat in practical terms.

252

00:15:06,000 --> 00:15:11,000

What that means is if you're trying to hold this boat upside down full of air at the bottom of the ocean,

253

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

that there's 2000 pounds of force pulling upwards.

254

00:15:16,000 --> 00:15:21,000

So even if you were job of the hut and weighed enough to hold the boat down,

255

00:15:21,000 --> 00:15:24,000

your arms would still have an out of body experience.

256

00:15:24,000 --> 00:15:26,000

They would be ripped out of their sockets.

257

00:15:26,000 --> 00:15:27,000

You couldn't do it.

258

00:15:27,000 --> 00:15:30,000

So there's just one outstanding question.

259

00:15:30,000 --> 00:15:34,000

How did Cap and Jack Sparrow do it in the movie?

260

00:15:34,000 --> 00:15:37,000

The sequence has three key shots.

261

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

Entering the water, the submerged walk at the bottom of the ocean,

262

00:15:40,000 --> 00:15:44,000

and finally the pirate's safe in their air bubble.

263

00:15:44,000 --> 00:15:50,000

Shot the first pirate's Jamie and Adam seeking to evade detection.

264

00:15:50,000 --> 00:15:52,000

Walk their boat into the water.

265

00:15:52,000 --> 00:15:53,000

Here we go.

266

00:15:53,000 --> 00:15:55,000

This one's pretty simple.

267

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

No special effects needed here.

268

00:15:57,000 --> 00:16:00,000

Oh, I think it's working.

269

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

Right, shot the second pre-drilled holes and wait to make the boat sink.

270

00:16:04,000 --> 00:16:08,000

Jamie and Adam inside with special small air tanks.

271

00:16:08,000 --> 00:16:09,000

Ready?

272

00:16:09,000 --> 00:16:10,000

Here we go.

273

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

With a neutrally buoyant boat and concealed air tanks,

274

00:16:13,000 --> 00:16:20,000

our pirates can defy physics and walk their submersible along the ocean floor.

275

00:16:20,000 --> 00:16:25,000

Shot number three, Jamie and Adam, the pirates from inside the boat.

276

00:16:25,000 --> 00:16:26,000

Ready?

277

00:16:26,000 --> 00:16:27,000

Go!

278

00:16:28,000 --> 00:16:30,000

Supposedly at the bottom of the ocean,

279

00:16:30,000 --> 00:16:34,000

they're actually walking the upturn boat along the surface.

280

00:16:34,000 --> 00:16:36,000

Are you excited?

281

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

Yeah.

282

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

Cut it as strong as solid time it is.

283

00:16:42,000 --> 00:16:43,000

So there you have it.

284

00:16:43,000 --> 00:16:46,000

Hollywood's special effects uncovered.

285

00:16:46,000 --> 00:16:52,000

A physics-defying sequence made into reality with some clever behind-the-scenes work.

286

00:16:52,000 --> 00:16:56,000

It's all a bunch of movie magic we've done for your benefit.

287

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

Movie magic things, pretty cool.

288

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

I really think we can make a go for it.

289

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

What do you think?

290

00:17:01,000 --> 00:17:02,000

Sure, why not?

291

00:17:02,000 --> 00:17:04,000

Let's make special effects with her.

292

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

You know, Adam, it's perfectly clear.

293

00:17:07,000 --> 00:17:11,000

There's just no way that two men could hold a boat underwater

294

00:17:11,000 --> 00:17:13,000

if it's got a pocket of breathable air in it.

295

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

It'd be too buoyant.

296

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

Right, and it didn't work with the dam either.

297

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

Yeah, so the myth is busted?

298

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

Busted, totally busted, busted.

299

00:17:30,000 --> 00:17:31,000

But wait, there's more.

300

00:17:31,000 --> 00:17:33,000

That's right, if you want to learn more about buoyancy

301

00:17:33,000 --> 00:17:35,000

and exactly why this myth was busted,

302

00:17:35,000 --> 00:17:38,000

then simply log on to www.discovery.com.

303

00:17:38,000 --> 00:17:40,000

Slash myth busters and get more.

304

00:17:43,000 --> 00:17:44,000

Later.

305

00:17:44,000 --> 00:17:45,000

What are you doing, my cannon?

306

00:17:45,000 --> 00:17:48,000

Adam and Jamie wheel out the big guns,

307

00:17:48,000 --> 00:17:50,000

but first, will Tari lose his head?

308

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

This is scary, I'm not gonna lie.

309

00:17:52,000 --> 00:17:56,000

Pirates are an intrinsic part of modern-day entertainment.

310

00:17:56,000 --> 00:18:03,000

I mean, who doesn't love a camp pirate musical extravaganza?

311

00:18:03,000 --> 00:18:06,000

But let's not forget, back in the day,

312

00:18:06,000 --> 00:18:10,000

they prowled the high seas with murderous intent.

313

00:18:10,000 --> 00:18:13,000

I take what I want and I want what I take.

314

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

Ha-ha-ha-ha!

315

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

Crossing paths with a corsair could be fatal

316

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

if we'd be able to offer this to our followers.

317

00:18:20,000 --> 00:18:24,500

the Corsair could be fatal in any number of imaginative ways.

318

00:18:24,500 --> 00:18:31,000

But surely the worst was the mythical sand necktie.

319

00:18:31,000 --> 00:18:37,000

Buried to the neck, the incoming tide ensured a gruesome, claustrophobic death.

320

00:18:37,000 --> 00:18:39,000

Or did it?

321

00:18:39,000 --> 00:18:43,000

Tortugatori, up to his neck in it, is attempting to find out.

322

00:18:43,000 --> 00:18:46,000

This is scary. I'm not going to lie.

323

00:18:46,000 --> 00:18:50,000

But despite losing his head for the five minutes he was locked in position,

324

00:18:50,000 --> 00:18:54,000

Tori eventually manages to free one of his arms.

325

00:18:54,000 --> 00:18:58,000

Hey! Oh my gosh.

326

00:18:58,000 --> 00:19:01,000

There you go. It's a good start.

327

00:19:01,000 --> 00:19:04,000

You know, if you can get one hand free, you can dig yourself out.

328

00:19:07,000 --> 00:19:11,000

Now that my arm's free, I feel much better.

329

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

Tori may feel better, but freedom is still a long way off.

330

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

Well, we're a little bit past the 30 minute mark.

331

00:19:27,000 --> 00:19:32,000

He seems to be doing pretty well, except I'm noticing that he's digging in

332

00:19:32,000 --> 00:19:36,000

and then he has a cave in. And it's like he has to start all over again.

333

00:19:36,000 --> 00:19:38,000

God!

334

00:19:42,000 --> 00:19:46,000

You know what? I welcome the tide now.

335

00:19:46,000 --> 00:19:52,000

With Tori ready to end it all, Karrion Grant's step up to boost morale.

336

00:19:52,000 --> 00:19:57,000

Right. Here we have a very rare sight, the burrowing belaychi.

337

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

He's almost formed his little burrow.

338

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

And that'll be his home for the next five years.

339

00:20:05,000 --> 00:20:10,000

And what do you know? The burrowing belaychi musters his energy and...

340

00:20:10,000 --> 00:20:13,000

Yeah!

341

00:20:13,000 --> 00:20:15,000

Yeah!

342

00:20:15,000 --> 00:20:18,000

That is 86 minutes.

343

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

After an hour and a half of extreme science,

344

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

Tori must be feeling on top of the world. Right?

345

00:20:24,000 --> 00:20:29,000

Gosh, this whole experience pretty much sucked from the beginning.

346

00:20:29,000 --> 00:20:33,000

The only time it sounded kind of fun was when we were in the office saying,

347

00:20:33,000 --> 00:20:35,000

hey, do you want to get buried up to your neck in sand?

348

00:20:35,000 --> 00:20:37,000

And I was like, yeah, that sounds kind of fun.

349

00:20:37,000 --> 00:20:42,000

But getting out of it was really hard.

350

00:20:42,000 --> 00:20:46,000

It's taken me over an hour to dig my way out of this hole.

351

00:20:46,000 --> 00:20:50,000

The escape casts doubt over the myth that the infamous sand necktie

352

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

will give you a bad case of dead, but Tori was buried in dry sand

353

00:20:55,000 --> 00:20:57,000

well away from the incoming tide.

354

00:20:57,000 --> 00:21:02,000

Until they test the lethality under those conditions, this myth is still alive.

355

00:21:03,000 --> 00:21:07,000

The End

356

00:21:14,000 --> 00:21:18,000

You know, Jamie, I've always pondered.

357

00:21:18,000 --> 00:21:23,000

What would pirates do if they were in a battle and they ran out of cannonballs?

358

00:21:23,000 --> 00:21:28,000

They'd improvise. You know, they'd just grab anything they had handy and shove it down the barrel.

359

00:21:29,000 --> 00:21:33,000

That sounds like something we should test.

360

00:21:33,000 --> 00:21:34,000

You got it.

361

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

In this movie myth, when the ship hits the fan and there's no cannonballs left on board,

362

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

you can supposedly blast your enemy with whatever's on hand.

363

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

But what would happen in real life with this improvised ammunition

364

00:21:49,000 --> 00:21:53,000

lead to a ballistics bullseye? Or is it just fantasy physics?

365

00:21:53,000 --> 00:21:58,000

Well, accepting pirate booty, what would you find on a pirate ship

366

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

that you can cram down a barrel and fire at the enemies?

367

00:22:01,000 --> 00:22:07,000

Well, let me think. The first thing that comes to my mind would be silverware, like cutlery.

368

00:22:07,000 --> 00:22:13,000

Oh, that's good. I guess if you were desperate, you could use bottles of rum and wine.

369

00:22:13,000 --> 00:22:15,000

Chain. Nails.

370

00:22:15,000 --> 00:22:19,000

Well, and then if you're really hard up, I mean, you are a pirate after all,

371

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

so you could take off your wooden peg leg and you could fire that.

372

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

Well, you'd have to be very, very desperate, but that sounds great. Let's try.

373

00:22:31,000 --> 00:22:34,000

As plans go, this one's as simple as it gets.

374

00:22:34,000 --> 00:22:38,000

Jamie and Adam will gather the ad hoc ammunition they've chosen to test.

375

00:22:38,000 --> 00:22:42,000

It's a genuine bonafide pirate peg leg.

376

00:22:42,000 --> 00:22:48,000

And make their way down to the Alameda County bomb disposal range to fire it from a cannon.

377

00:22:48,000 --> 00:22:52,000

And the artillery in question has a familiar muzzle.

378

00:22:52,000 --> 00:22:54,000

Look at that.

379

00:22:54,000 --> 00:22:56,000

Look, see an old friend.

380

00:22:56,000 --> 00:22:58,000

How you doing there, old buddy?

381

00:22:58,000 --> 00:23:05,000

Of course, old friend, old Moses and Cavineer Harry Webb have had a blast with the Mythbusters before.

382

00:23:08,000 --> 00:23:12,000

And because they can do that, it's no surprise they've been invited back.

383

00:23:12,000 --> 00:23:18,000

My buddy, old Moses here is a replica of an 1841 six pound ball cannon,

384

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

and it fires that six pound ball at about 900 miles an hour.

385

00:23:25,000 --> 00:23:30,000

So, Harry, are you okay with us shooting pretty much anything we decide to put in the cannon?

386

00:23:30,000 --> 00:23:35,000

Certainly, within reason. I mean, it has to be under three and a quarter inches and under 12 pounds,

387

00:23:35,000 --> 00:23:41,000

just for the stress of the gun, but anything you can fit down there that qualifies for that is fine with me.

388

00:23:41,000 --> 00:23:45,000

With Harry's blessing, they can begin prepping old Moses for firing.

389

00:23:45,000 --> 00:23:50,000

And unfortunately for everyone with an ear shot, Adam can get into character.

390

00:23:50,000 --> 00:23:53,000

What are you doing with my cannon? Hold it right there.

391

00:23:53,000 --> 00:23:57,000

Who told me that we had no cannonballs?

392

00:23:57,000 --> 00:24:04,000

I want you to take everything we've got on the ship, shove it down that barrel and shoot it in that bow.

393

00:24:04,000 --> 00:24:06,000

We're not just standing there.

394

00:24:06,000 --> 00:24:08,000

Are we going to have to listen to this all day?

395

00:24:08,000 --> 00:24:09,000

Yes.

396

00:24:09,000 --> 00:24:10,000

Next.

397

00:24:10,000 --> 00:24:16,000

Bottle of red, bottle of white, whatever kind of mood you're in tonight.

398

00:24:16,000 --> 00:24:20,000

Adam and Jamie begin firing their improvised ammo.

399

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

Wow. That's so percussive.

400

00:24:31,000 --> 00:24:34,000

On location at the bomb disposal range.

401

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

What do you mean we ain't got no cannonballs?

402

00:24:37,000 --> 00:24:42,000

Jamie and Adam are on course for some Caribbean cannonball chaos.

403

00:24:42,000 --> 00:24:43,000

It's a bit hot being a pirate.

404

00:24:43,000 --> 00:24:49,000

They're testing the myth that improvised ammo will work in place of regular cannonballs.

405

00:24:49,000 --> 00:24:50,000

Perfect.

406

00:24:50,000 --> 00:24:53,000

And to do that, they need a target.

407

00:24:53,000 --> 00:24:57,000

Some way of gauging and comparing the performance of the different types of ammo.

408

00:24:57,000 --> 00:25:06,000

If you've watched MythMasters before, you know that pigs are often used by them as human analogs.

409

00:25:06,000 --> 00:25:11,000

Lucky for us, there's not a big difference between humans and pirates.

410

00:25:11,000 --> 00:25:15,000

So he makes an excellent pirate analog.

411

00:25:15,000 --> 00:25:20,000

And now, a short break to hear from our partners on the Pirate Channel.

412

00:25:20,000 --> 00:25:23,000

Welcome back pirates to the Pirate Channel's household hints.

413

00:25:23,000 --> 00:25:28,000

If you're like me, you've found yourself in the heat of battle without a cannonball.

414

00:25:28,000 --> 00:25:33,000

And I'd like to suggest a few things you might shove down that barrel for maximum damage.

415

00:25:33,000 --> 00:25:38,000

Of course, you can run to the mess hall and use whatever pirate cutlery you've got.

416

00:25:38,000 --> 00:25:45,000

I like this method just fine, but if I've got steak knives, if my men are eating well, these are much more effective.

417

00:25:45,000 --> 00:25:47,000

Nails are also very good.

418

00:25:47,000 --> 00:25:51,000

Shove a bunch of them down the barrel so I can pirate flesh that gun.

419

00:25:51,000 --> 00:25:55,000

I like the chain for eliminating five or six people at a time.

420

00:25:55,000 --> 00:25:56,000

Off the deck.

421

00:25:56,000 --> 00:26:02,000

And if you're pirate subscribed to the Geneva Convention, the old pirate rum is ideal because it creates wounds.

422

00:26:02,000 --> 00:26:04,000

They are pre-disinfected.

423

00:26:04,000 --> 00:26:11,000

Grape shot is, of course, the most loveliest, but if you find yourself without any of these, don't fear.

424

00:26:11,000 --> 00:26:16,000

You can always use your own peg leg as a weapon.

425

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

While Adam's been working on his career in daytime pirate TV, Jamie's done, you know, some work.

426

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

You want sawdust in there?

427

00:26:23,000 --> 00:26:25,000

Put sawdust in the middle of it.

428

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

Under the careful tuition of our resident cannon expert, Harry, he's packed the ammo for the first test.

429

00:26:31,000 --> 00:26:37,000

First up is grape shot. This is kind of a control because this is an actual thing that pirates would have used.

430

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

They're basically just balls and you shoot a whole bunch of them out of the cannon.

431

00:26:41,000 --> 00:26:44,000

It's kind of like a great big shotgun.

432

00:26:44,000 --> 00:26:50,000

And for a great big shotgun, you need lots of gunpowder, which the team carefully load

433

00:26:50,000 --> 00:26:53,000

before sliding the grape shot canister down the barrel.

434

00:26:53,000 --> 00:26:55,000

Okay, test number one.

435

00:26:55,000 --> 00:26:59,000

Remember, this is a control using legitimate period accurate ammunition.

436

00:26:59,000 --> 00:27:02,000

It'll be the point of comparison for what's to follow.

437

00:27:02,000 --> 00:27:06,000

Fire! Three, two, one!

438

00:27:09,000 --> 00:27:14,000

Oh, wow.

439

00:27:14,000 --> 00:27:16,000

All right.

440

00:27:16,000 --> 00:27:18,000

I think it hit him.

441

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

I'm pretty sure that's a palpable hit.

442

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

Yep, Porky the Pirate took a hit.

443

00:27:24,000 --> 00:27:28,000

A hit with at least enough force to knock him off his hook.

444

00:27:28,000 --> 00:27:31,000

I don't have anything to say about this.

445

00:27:31,000 --> 00:27:32,000

It's astonishing.

446

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

Oh, look, really, you should just be watching the high speed.

447

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

Check out the high speed.

448

00:27:36,000 --> 00:27:38,000

Do you see what I'm talking about?

449

00:27:38,000 --> 00:27:41,000

This grape shot is deadly.

450

00:27:41,000 --> 00:27:43,000

That's our control.

451

00:27:43,000 --> 00:27:48,000

That's what we're going to compare all the other types of things we're shooting out of this cannon.

452

00:27:48,000 --> 00:27:51,000

So what's next on the menu?

453

00:27:51,000 --> 00:27:56,000

So in the middle of a battle, you haven't got anything hard or metallic to shove in your cannon.

454

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

Maybe you go for the stores and we thought broken glass.

455

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

So what we've got is a bottle of red, a bottle of white, whatever kind of mood you're in tonight.

456

00:28:08,000 --> 00:28:13,000

But Jamie thinks this movie myth is going to go up in smoke.

457

00:28:13,000 --> 00:28:16,000

The glass is going to shatter right off the bat.

458

00:28:16,000 --> 00:28:18,000

The shock wave is going to disintegrate the glass.

459

00:28:18,000 --> 00:28:20,000

The liquid is just going to vaporize.

460

00:28:20,000 --> 00:28:25,000

I wouldn't be surprised to see just little flecks of glass on the pig and that's about it.

461

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

You like your pork marinated in wine?

462

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

Sparring. Three, two, one.

463

00:28:36,000 --> 00:28:39,000

That's so percussive.

464

00:28:39,000 --> 00:28:42,000

Did someone mention percussion?

465

00:28:45,000 --> 00:28:48,000

Tchaikovsky's 1812 overture.

466

00:28:48,000 --> 00:28:54,000

With artillery explosions written into the score, it's the perfect Mythbusters soundtrack.

467

00:28:54,000 --> 00:28:59,000

Exactly what I said it was going to be. It's got little flecks of glass on the surface.

468

00:28:59,000 --> 00:29:02,000

Oh, there's one that actually went in a little bit.

469

00:29:02,000 --> 00:29:04,000

It looks like it, right through the claw.

470

00:29:04,000 --> 00:29:07,000

Grows.

471

00:29:07,000 --> 00:29:09,000

I don't think you'd die from that.

472

00:29:09,000 --> 00:29:12,000

No, it would hurt, but it's not like you'd kill a whole bunch of people.

473

00:29:12,000 --> 00:29:15,000

You'd have a bunch of people who are annoyed and smelled like wine.

474

00:29:15,000 --> 00:29:17,000

Yeah, maybe kind of bloody.

475

00:29:17,000 --> 00:29:19,000

Let's set up again.

476

00:29:19,000 --> 00:29:20,000

Okay.

477

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

So bottles of rock are busted as improvised ammo, but that's only the first item on this menu of mayhem.

478

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

Coming up.

479

00:29:30,000 --> 00:29:32,000

Caca! Caca!

480

00:29:32,000 --> 00:29:34,000

Grant calls the crabs for help.

481

00:29:34,000 --> 00:29:38,000

But first, Adam and Jamie are aiming to find out if...

482

00:29:38,000 --> 00:29:39,000

That pig.

483

00:29:39,000 --> 00:29:43,000

...will survive another barrage of improvised ammo.

484

00:29:51,000 --> 00:29:58,000

Adam and Jamie are tackling the tall tale of improvised ammunition.

485

00:29:58,000 --> 00:30:03,000

They have a period accurate cannon, a pirate pig for cannon fodder,

486

00:30:03,000 --> 00:30:07,000

and a range of mythical movie inspired ammunition.

487

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

So what's next to test?

488

00:30:10,000 --> 00:30:12,000

I tell you what I want to see from this.

489

00:30:12,000 --> 00:30:16,000

Why I'm so excited about doing this is I want to see one of these spoons like...

490

00:30:16,000 --> 00:30:21,000

Sticking right out of our pig, our pirate.

491

00:30:21,000 --> 00:30:25,000

You got to figure things really suck for you at this point.

492

00:30:25,000 --> 00:30:28,000

You're loading silverware into your cannons.

493

00:30:29,000 --> 00:30:32,000

So is this a case of what you see?

494

00:30:33,000 --> 00:30:37,000

Is what you get, or will the real world results match up?

495

00:30:37,000 --> 00:30:39,000

We're at front.

496

00:30:39,000 --> 00:30:42,000

Three, two, one.

497

00:30:43,000 --> 00:30:46,000

I can't get used to that.

498

00:30:46,000 --> 00:30:49,000

I know, it's nothing that makes it comfortable.

499

00:30:49,000 --> 00:30:52,000

I saw like a whole spray. It was awesome.

500

00:30:52,000 --> 00:30:58,000

But a closer look at the scene reveals none of the silverware stuck in Porky the pirate pig.

501

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

I don't see any cutlery in him.

502

00:31:01,000 --> 00:31:03,000

Where's all the cutlery?

503

00:31:03,000 --> 00:31:05,000

Cutlery doesn't work too well.

504

00:31:05,000 --> 00:31:11,000

I mean, it's not like it is in the movies where you've got, you know, a fork and a knife and a fork

and a knife and a spoon.

505

00:31:11,000 --> 00:31:16,000

It does this. It gets all mangled. It goes everywhere. It's not accurate.

506

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

It's probably lethal to somebody somewhere in the target zone, but it's not like the grape shot where you hit what you aim it at and they're going to be dead.

507

00:31:26,000 --> 00:31:35,000

The guys have proved randomly shoving cutlery down the barrel is busted, but silverware still has a shot at making its mark.

508

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

On the next test, a healthy handful of steak knives is packed into a ballistics friendly container.

509

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

That's just scary looking. Look at it. Look at it.

510

00:31:45,000 --> 00:31:47,000

Oh, and right for you.

511

00:31:51,000 --> 00:31:53,000

Let's try it.

512

00:31:53,000 --> 00:31:57,000

The meat knives are locked and loaded. The target is in place.

513

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

What's on the menu, Captain Redbeard?

514

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

That pig.

515

00:32:02,000 --> 00:32:09,000

It seems his reputation as a bloodthirsty scourge of the high seas is accurate.

516

00:32:09,000 --> 00:32:13,000

Burring three, two, one.

517

00:32:16,000 --> 00:32:18,000

Wow.

518

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

It's always an adrenaline rush.

519

00:32:22,000 --> 00:32:24,000

Uh-oh. I can see it from here.

520

00:32:24,000 --> 00:32:25,000

What?

521

00:32:25,000 --> 00:32:26,000

We got damage.

522

00:32:26,000 --> 00:32:27,000

We got damage?

523

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

We got flesh wounds.

524

00:32:29,000 --> 00:32:31,000

Wow. Look at that damage.

525

00:32:31,000 --> 00:32:42,000

Yep, on the high speed, the high speed steak knives sished through their target, alighting them in the canister to keep them compact as they left the muzzle, made a huge difference to the result.

526

00:32:42,000 --> 00:32:48,000

Oh, we got some good slices. So we could, based on that, say it'd definitely be lethal.

527

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

So what's next?

528

00:32:53,000 --> 00:32:56,000

Well, why not the pirate leg?

529

00:32:56,000 --> 00:33:02,000

Good. Well, I picture the situation as totally desperate. You just like, right, let's get my leg off.

530

00:33:02,000 --> 00:33:06,000

You take your leg off and shove it in the end of the barrel and you'll fire.

531

00:33:06,000 --> 00:33:08,000

You don't have to cut it or anything. Just boop.

532

00:33:08,000 --> 00:33:09,000

Let's see what happens.

533

00:33:09,000 --> 00:33:11,000

And what happens is...

534

00:33:15,000 --> 00:33:17,000

I don't see anything.

535

00:33:17,000 --> 00:33:19,000

The peg leg ceases to exist.

536

00:33:19,000 --> 00:33:21,000

Where's my peg leg?

537

00:33:21,000 --> 00:33:24,000

I see a lot of little splinters all over the place.

538

00:33:25,000 --> 00:33:37,000

With a pound of 1F black powder sending an explosive shockwave at 900 miles per hour along the 60 inch barrel, it's no surprise the peg leg went away.

539

00:33:38,000 --> 00:33:42,000

No, pirates, never use your wooden leg in a firefight.

540

00:33:46,000 --> 00:33:51,000

Tori is found out if you're up to your neck in it, life can be a beach.

541

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

Hey!

542

00:33:53,000 --> 00:33:55,000

Oh my gosh.

543

00:33:55,000 --> 00:34:02,000

But he did escape, casting doubt that the mythical pirate punishment, the sand necktie, is a certain death sentence.

544

00:34:02,000 --> 00:34:04,000

Yeah!

545

00:34:04,000 --> 00:34:08,000

Tori didn't pass out, but he did get out. It just took him an hour and a half to dig his way out.

546

00:34:08,000 --> 00:34:11,000

Yeah, but that was dry sand and this myth is about wet sand.

547

00:34:11,000 --> 00:34:17,000

So I think the next logical step is to bury someone up to their neck in wet sand and see if they can escape that.

548

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

Yeah, but I think it's just too dangerous to bury somebody that close to the waterline.

549

00:34:21,000 --> 00:34:29,000

Maybe what we should do is build a box, fill it with wet sand and have some kind of mechanism so if the person starts freaking out, we can release the sand and they can get out safely.

550

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

Okay, so who are we going to bury?

551

00:34:31,000 --> 00:34:36,000

Well, since Kari's knee's messed up and I'm building the box, looks like it's you.

552

00:34:36,000 --> 00:34:38,000

Arrr!

553

00:34:38,000 --> 00:34:42,000

So this time, cabin boy Imahara will play the part of prisoner.

554

00:34:42,000 --> 00:34:46,000

If you can't breathe, something goes wrong, we need to get him out quickly.

555

00:34:46,000 --> 00:34:52,000

We're going to have straps around all the walls that are going to hold the box together.

556

00:34:52,000 --> 00:34:58,000

We pop the straps and the wall will collapse and the sand will come out and we'll be able to rescue Grin.

557

00:35:01,000 --> 00:35:03,000

Sand chamber is complete.

558

00:35:07,000 --> 00:35:12,000

While Grant and Tori dream of world domination, lets get back to the beach.

559

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

Man, we need a new cabin boy, so we're getting rid of you.

560

00:35:16,000 --> 00:35:20,000

Where they set up the sand chamber ready for Grant's incarceration.

561

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

Alright, here's the plan.

562

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

Step one, we build the box.

563

00:35:23,000 --> 00:35:25,000

Step two, we put Grant in the box.

564

00:35:25,000 --> 00:35:27,000

Don't knock on the glass, it upsets the fish.

565

00:35:27,000 --> 00:35:32,000

Step three, we fill the box up with sand and water and then we see if Grant can get out.

566

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

Tori brings in the mechanical digger to start loading up the sand.

567

00:35:36,000 --> 00:35:41,000

And Carrie and Grant organize the water pump to simulate sand conditions close to the shoreline.

568

00:35:41,000 --> 00:35:43,000

You know, wet.

569

00:35:43,000 --> 00:35:46,000

All it's left to do is for Grant to put on his wetsuit.

570

00:35:47,000 --> 00:35:49,000

Hey, make sure you cover the poop deck, okay?

571

00:35:52,000 --> 00:35:53,000

Get back in his box.

572

00:35:54,000 --> 00:35:57,000

Okay, I'm ran.

573

00:35:57,000 --> 00:35:59,000

That's an interesting experience.

574

00:35:59,000 --> 00:36:02,000

And wait patiently as Carrie and Tori...

575

00:36:02,000 --> 00:36:04,000

It's like watering a little Grant flower.

576

00:36:04,000 --> 00:36:07,000

...add enough water and sand to bury him to the neck.

577

00:36:16,000 --> 00:36:18,000

This is a very interesting feeling.

578

00:36:18,000 --> 00:36:21,000

I cannot move my arms at all.

579

00:36:22,000 --> 00:36:25,000

I can wiggle my toes and I can wiggle my fingers.

580

00:36:25,000 --> 00:36:28,000

Alright, this is feeling pretty good. What do you think? We let him go for it?

581

00:36:28,000 --> 00:36:31,000

Alright, pirate, dig your way to freedom.

582

00:36:31,000 --> 00:36:33,000

Alright, here I go.

583

00:36:33,000 --> 00:36:35,000

I will be playing the part of the tide.

584

00:36:35,000 --> 00:36:37,000

Whoo, splash, splash!

585

00:36:39,000 --> 00:36:43,000

I got my fingers making a little finger space,

586

00:36:43,000 --> 00:36:46,000

trying to head towards the stomach.

587

00:36:49,000 --> 00:36:53,000

And in fact, making use of my arm being straight up and down

588

00:36:53,000 --> 00:36:57,000

as a path to the top and moving my shoulder,

589

00:36:57,000 --> 00:36:59,000

which is working pretty well.

590

00:36:59,000 --> 00:37:02,000

Safe in the knowledge he can call for the quick release,

591

00:37:02,000 --> 00:37:06,000

Grant Cooley tries to think his way out of his beachside jail.

592

00:37:06,000 --> 00:37:08,000

I think I can do this.

593

00:37:08,000 --> 00:37:10,000

Alright, it's coming in.

594

00:37:10,000 --> 00:37:13,000

But that early confidence is misplaced

595

00:37:13,000 --> 00:37:16,000

because after ten minutes of desperate struggling,

596

00:37:16,000 --> 00:37:21,000

Grant realizes he may as well have been trying to stop the tide coming in.

597

00:37:21,000 --> 00:37:23,000

Oh, you know what? What are you thinking?

598

00:37:23,000 --> 00:37:27,000

It just hit... I had two open cavities down by my fingers.

599

00:37:27,000 --> 00:37:29,000

They just filled in.

600

00:37:29,000 --> 00:37:33,000

I got two fists full of sand and I can't move anymore.

601

00:37:33,000 --> 00:37:35,000

The higher density of the wet sand,

602

00:37:35,000 --> 00:37:39,000

plus the water Carriantori are adding to simulate the incoming tide,

603

00:37:39,000 --> 00:37:42,000

seals Grant's hands and his fate.

604

00:37:42,000 --> 00:37:45,000

Yeah, that's it. I'm done.

605

00:37:45,000 --> 00:37:47,000

Alright, let's get him out.

606

00:37:47,000 --> 00:37:48,000

How are we going to get him out?

607

00:37:48,000 --> 00:37:50,000

We'll test the safety mechanism.

608

00:37:50,000 --> 00:37:52,000

Okay, I'm getting way far back.

609

00:37:52,000 --> 00:37:53,000

Okay, you ready?

610

00:37:53,000 --> 00:37:54,000

I'm ready to seal this.

611

00:37:54,000 --> 00:37:55,000

Okay, here we go.

612

00:37:55,000 --> 00:37:59,000

Stand back everybody. Three, two, one.

613

00:38:08,000 --> 00:38:12,000

While Grant enjoys an endorphin high from his near-death experience,

614

00:38:12,000 --> 00:38:16,000

Tori can explain why this myth was confirmed.

615

00:38:16,000 --> 00:38:19,000

The water is a key factor in this whole experiment.

616

00:38:19,000 --> 00:38:24,000

If the water is continually washing over the person buried up to their neck,

617

00:38:24,000 --> 00:38:26,000

there's no way they can get out.

618

00:38:26,000 --> 00:38:29,000

The sand just continues to fill up those gaps

619

00:38:29,000 --> 00:38:32,000

because the water keeps pushing the sand into those gaps.

620

00:38:32,000 --> 00:38:36,000

So, if you're buried up in your neck and you're close to the shoreline,

621

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

you're pretty much dead.

622

00:38:44,000 --> 00:38:46,000

Alright, this one's looking confirmed.

623

00:38:46,000 --> 00:38:48,000

You can't dig your way out of wet sand.

624

00:38:48,000 --> 00:38:52,000

And I think you would drown before you disfixiate from the pressure on your lungs from the sand.

625

00:38:52,000 --> 00:38:55,000

So, well and all, this is a very dastardly punishment or death.

626

00:38:55,000 --> 00:38:57,000

That's confirmed.

627

00:39:23,000 --> 00:39:31,000

But so far, the Cannonball Chaos Myth has yet to live up to its movie inspiration.

628

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

What's next? Nails. Nails.

629

00:39:33,000 --> 00:39:35,000

Ye olde nails. Ye olde nails.

630

00:39:35,000 --> 00:39:38,000

Let's set up for Jamie's ye olde flechette gun.

631

00:39:38,000 --> 00:39:44,000

If you're wondering, flechette, literally translated from the French, means little arrow.

632

00:39:44,000 --> 00:39:49,000

So, flechette rounds are small darts, needles, or nails.

633

00:39:49,000 --> 00:39:54,000

And Jamie has the chance to fire this super-sized flechette gun.

634

00:39:59,000 --> 00:40:00,000

You're now a can of nears, sir.

635

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

Thank you. That's kind of intense.

636

00:40:03,000 --> 00:40:07,000

Oh, that's bad. Now that is a mortal wound.

637

00:40:07,000 --> 00:40:11,000

After all that we've fired at this entrapment pirate,

638

00:40:11,000 --> 00:40:17,000

I have to say, ye olde nails are almost as deadly as the great shot.

639

00:40:17,000 --> 00:40:22,000

Look at these. Look at the damage they've done to this poor bloke.

640

00:40:22,000 --> 00:40:24,000

That's awful.

641

00:40:24,000 --> 00:40:27,000

Nice big heavy nails like that. You don't want to be in front of them.

642

00:40:32,000 --> 00:40:34,000

More. What's next?

643

00:40:34,000 --> 00:40:36,000

Next, our lengths of chain.

644

00:40:36,000 --> 00:40:39,000

A perfectly legitimate thing to find on deck.

645

00:40:39,000 --> 00:40:42,000

Here we go. This one's for glory.

646

00:40:42,000 --> 00:40:46,000

Three, two, one.

647

00:40:48,000 --> 00:40:51,000

Oh, yeah.

648

00:40:51,000 --> 00:40:55,000

Roar!

649

00:40:55,000 --> 00:40:57,000

Let's go look.

650

00:40:57,000 --> 00:41:04,000

Oh, wow! Dude, that is wrong. Wow!

651

00:41:04,000 --> 00:41:09,000

That's about the most gruesome damage we've ever done to one of our pirates and pigs.

652

00:41:09,000 --> 00:41:12,000

One of our any of our test subjects. That's horrifying.

653

00:41:12,000 --> 00:41:17,000

Grusom indeed, friends and family of Porky the Pirate, may wish to look away now.

654

00:41:17,000 --> 00:41:22,000

Quite similar. Of all the improvised cannon ammo tested,

655

00:41:22,000 --> 00:41:26,000

the heavy duty chain was easily the most effective.

656

00:41:26,000 --> 00:41:28,000

It actually behaved like a bullet.

657

00:41:28,000 --> 00:41:31,000

It just passed right through him. It ricocheted off the hill,

658

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

landed in the grass a couple hundred feet away, still in one piece.

659

00:41:35,000 --> 00:41:42,000

So where do we stand on cannonball alternatives?

660

00:41:42,000 --> 00:41:44,000

The lightweight stuff didn't fare so well.

661

00:41:44,000 --> 00:41:50,000

I mean, the peg leg, the wine bottle, the silverware, they just don't have much mass.

662

00:41:50,000 --> 00:41:55,000

They kind of disintegrated. I wouldn't want to stand in front of it, but not so good.

663

00:41:55,000 --> 00:42:02,000

Whereas the shop stuff and bladed stuff like the stipe knives and the nails was actually somewhat effective.

664

00:42:02,000 --> 00:42:07,000

Yeah, and then the absolute most terrifying thing in the whole deal was that chain.

665

00:42:07,000 --> 00:42:08,000

That was just horrible.

666

00:42:08,000 --> 00:42:13,000

Without a doubt, in fact, I'm packing chain for every pillaging trip I take.

667

00:42:18,000 --> 00:42:19,000

Pirates.

668

00:42:20,000 --> 00:42:21,000

We've done some good work here.

669

00:42:23,000 --> 00:42:25,000

It ought to tide the fans over for a little while.

670

00:42:26,000 --> 00:42:28,000

What's your favorite letter of the alphabet?

671

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

Sometimes cute.

672

00:42:31,000 --> 00:42:32,000

See you next time.

673

00:42:36,000 --> 00:42:39,000

Hey you, yeah you, got any ideas?

674

00:42:39,000 --> 00:42:45,000

For our viewers special, send them in and if they're good, they're on TV, mate.

675

00:42:45,000 --> 00:42:52,000

If they're bad, I will find you, got you and hang your cockers from the yard.

676

00:42:52,000 --> 00:42:55,000

Oh, that's smart.

677

00:42:55,000 --> 00:42:58,000

Well, you were being impolite.

678

00:43:01,000 --> 00:43:03,000

You