

1

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

on this Blockbuster episode of Mythbusters.

2

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

We're gonna need a bigger boat.

3

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

Adam and Jamie set sail for summer

4

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

with an all-new Shark Week spectacular.

5

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

Yeah!

6

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

Oh, my God, a hit!

7

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

They're literally putting their lives on the line.

8

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

Nothing to test, man!

9

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

To find out, first, our magnets,

10

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

the new wave in shark repelling technology.

11

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

I'm gonna come in and urinate again in my wet suit, okay?

12

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

Then, during the frenzy of a shark attack,

13

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

can you find and poke a shark in the eye?

14

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

I don't want you to choke on my helmet, boat!

15

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

Next, there's the shaggy dog story.

16

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

I didn't train him to do that.

17

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

That sharks find our furry friends irresistible.

18

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

And then the team ramp up the fear factor.

19

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

Holy crap!

20

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

To find out if flashlights really do attract sharks.

21

00:01:04,000 --> 00:01:06,000

Ah! Ah! Ah!

22

00:01:06,000 --> 00:01:08,000

I was freaked out.

23

00:01:11,000 --> 00:01:13,000

Who are the Mythbusters?

24

00:01:13,000 --> 00:01:15,000

Adam Savage.

25

00:01:15,000 --> 00:01:18,000

You don't want to mix blur with blur.

26

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

And Jamie Heineman.

27

00:01:19,000 --> 00:01:22,000

I want to see what this puppy can do.

28

00:01:22,000 --> 00:01:26,000

Between them more than 30 years of special effects experience.

29

00:01:26,000 --> 00:01:28,000

Everybody okay?

30

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

Joining them, Carrie Byron.

31

00:01:31,000 --> 00:01:32,000

Let's do it.

32

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

Tori Bellachy.

33

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

Give me all your cash!

34

00:01:34,000 --> 00:01:36,000

And Grant Imahara.

35

00:01:36,000 --> 00:01:37,000

Ha ha ha ha!

36

00:01:37,000 --> 00:01:38,000

Whee!

37

00:01:38,000 --> 00:01:40,000

They don't just tell the myths.

38

00:01:40,000 --> 00:01:41,000

I like it.

39

00:01:41,000 --> 00:01:43,000

They put them to the test.

40

00:01:52,000 --> 00:02:03,000

Alright, if we're all in the same room together, it must mean something special is about to happen.

41

00:02:03,000 --> 00:02:05,000

Indeed, you are correct.

42

00:02:05,000 --> 00:02:06,000

Alright, so what is it?

43

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

Sharks!

44

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

Sharks!

45

00:02:08,000 --> 00:02:12,000

Ha ha ha! Yes, it's the Mythbusters Shark Bite Extravaganza.

46

00:02:12,000 --> 00:02:15,000

Well that's perfect, because we have a ton of shark myths ready to go.

47

00:02:15,000 --> 00:02:19,000

Absolutely, we've got myths about repelling sharks, myths about attracting sharks,

48

00:02:19,000 --> 00:02:23,000

and you and I, my friend, are starting out with the myth about fending off a shark attack.

49

00:02:23,000 --> 00:02:24,000

How?

50

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

Let me set the scene.

51

00:02:25,000 --> 00:02:28,000

You're on the open ocean and a shark comes along and mistakes you for a walrus,

52

00:02:28,000 --> 00:02:30,000

because anyone could.

53

00:02:30,000 --> 00:02:33,000

Grab some sharks, throw them around, what do you do?

54

00:02:33,000 --> 00:02:35,000

Well, we've already done punching sharks.

55

00:02:35,000 --> 00:02:36,000

What is it?

56

00:02:36,000 --> 00:02:37,000

Gouging their eyes?

57

00:02:37,000 --> 00:02:40,000

Yes, everyone knows sharks don't like being punched in the eyes,

58

00:02:40,000 --> 00:02:44,000

but what fans want to know is if you're being bitten by a shark and being thrown around,

59

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

could you even find his eyes?

60

00:02:46,000 --> 00:02:51,000

It does kind of make you wonder if you'd have enough time to get the job done before your lunch.

61

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

It's the stuff nightmares are made of.

62

00:02:57,000 --> 00:03:01,000

A man-eating shark is chewing on you like a chicken drumstick.

63

00:03:01,000 --> 00:03:08,000

In this situation, the accepted wisdom is to go for the eyes, forcing him to let you go.

64

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

But in the frenzy of a shark attack, do you really have time to find, reach,

65

00:03:13,000 --> 00:03:16,000

and then gouge before it's too late?

66

00:03:19,000 --> 00:03:22,000

So we're not going to gouge the eyes out of a real shark?

67

00:03:22,000 --> 00:03:23,000

No.

68

00:03:23,000 --> 00:03:24,000

What do you have in mind?

69

00:03:24,000 --> 00:03:26,000

I'm taking a big fake shark.

70

00:03:26,000 --> 00:03:28,000

Big fake mechanical shark?

71

00:03:28,000 --> 00:03:32,000

Yes, I have found these taxiderm sharks made out of fiberglass.

72

00:03:32,000 --> 00:03:35,000

I'm thinking we get one of those, cut it into pieces and...

73

00:03:35,000 --> 00:03:37,000

A big robot shark that moves.

74

00:03:37,000 --> 00:03:40,000

Exactly with stop switches for eyes.

75

00:03:40,000 --> 00:03:41,000

Perfect.

76

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

And Bruce, named after Spielberg's original animatronics monster,

77

00:03:47,000 --> 00:03:51,000

is destined to be one of the biggest builds in Mythbusters history.

78

00:03:53,000 --> 00:03:55,000

A build that's all about realism.

79

00:03:55,000 --> 00:04:01,000

Its articulated spine will thrash exactly like a shark during an attack.

80

00:04:01,000 --> 00:04:06,000

Its jaws will chomp down on its victims with an accurate bite force.

81

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

And as per the myth, a well-aimed poke in the eyes will be the only way to get it to stop.

82

00:04:14,000 --> 00:04:18,000

Finally, the boys are going to base their robot on the Great White.

83

00:04:18,000 --> 00:04:24,000

Each year, it's this species that tops the charts in unprovoked human attacks.

84

00:04:25,000 --> 00:04:30,000

So if you're ever going to need to gouge a shark's eye to escape its clutches,

85

00:04:30,000 --> 00:04:34,000

it's most likely going to be that of jaws.

86

00:04:34,000 --> 00:04:40,000

So to kick things off, Adam is using an actual jaw of a Great White for reference.

87

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

This is so beautiful.

88

00:04:42,000 --> 00:04:48,000

Check out all the teeth lined up, ready for service in case one gets snapped out.

89

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

The efficiency of the design is really lovely.

90

00:04:51,000 --> 00:04:56,000

Using the computer, he's carefully recreating that design in steel.

91

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

But Bruce's mouthful of metal won't be tested on humans.

92

00:04:59,000 --> 00:05:03,000

For that, he'll also need a safe set of test teeth.

93

00:05:03,000 --> 00:05:06,000

While we are making a nice, sharp set of steel teeth for him,

94

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

we are also making a set of cosmetic teeth, because when we get into them,

95

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

we don't want them to look like this.

96

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

Some real shark teeth.

97

00:05:16,000 --> 00:05:21,000

So we are making a second mouth for him, full of teeth with gum rubber teeth

98

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

that will be safe for us to get in, but still look totally awesome.

99

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

And while Adam's been exercising his jaw...

100

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

Look at that.

101

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

...Jayne's gone ahead and built one.

102

00:05:31,000 --> 00:05:35,000

Well, there we go. That's our shark jaw muscle.

103

00:05:36,000 --> 00:05:38,000

Gotta work.

104

00:05:38,000 --> 00:05:41,000

Jayne's also gathered an array of batteries,

105

00:05:41,000 --> 00:05:46,000

pistons, and assorted hydraulic hardware to power the spine.

106

00:05:46,000 --> 00:05:51,000

Meanwhile, the steel teeth have arrived in the... mail.

107

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

Check that out.

108

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

This is beautiful, 8-inch steel.

109

00:05:56,000 --> 00:06:01,000

I've got every size that I need to make my fully mechanical

110

00:06:01,000 --> 00:06:04,000

anatomically correct great white shark jaws.

111

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

One thing that's really clear, and I knew this was coming,

112

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

is that the shark has a lot of teeth.

113

00:06:10,000 --> 00:06:13,000

We are cutting out something around 90 of them,

114

00:06:13,000 --> 00:06:18,000

and they are all gonna have to be individually sharpened and serrated.

115

00:06:18,000 --> 00:06:21,000

The great white's tooth has serrations along the edge.

116

00:06:21,000 --> 00:06:25,000

In fact, its name, *carcara* and *carcarius*, means ragged toothed shark.

117

00:06:25,000 --> 00:06:28,000

All right, I'm gonna say it if no one else is.

118

00:06:28,000 --> 00:06:31,000

Adam, what's with the chain mail?

119

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

I'm just wearing the chain mail because I bought it in the mail.

120

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

It's actually anodized aluminum, and it feels kind of cool.

121

00:06:40,000 --> 00:06:43,000

Yeah, but not nearly as cool as this.

122

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

Oh, my God. We're gonna need a bigger boat.

123

00:06:47,000 --> 00:06:50,000

Shark delivery for Heinemann and Savage.

124

00:06:50,000 --> 00:06:52,000

That's the coolest thing I've ever seen.

125

00:06:52,000 --> 00:06:57,000

Yep, it's a life-sized fiberglass cast of a great white shark.

126

00:06:57,000 --> 00:07:02,000

Dude, I swear it was this big.

127

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

17 feet from tip to tail.

128

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

It's beautiful.

129

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

The original shark would have weighed in at 2,200 pounds.

130

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

It don't look like much without its teeth.

131

00:07:13,000 --> 00:07:16,000

Looks like he's ready to gum you to death.

132

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

And it's ready to be made into RoboShark.

133

00:07:19,000 --> 00:07:21,000

This is gonna be the best shark we've ever...

134

00:07:21,000 --> 00:07:28,000

Okay, guys, we have three shark myths, and we get to test them out on real-life sharks.

135

00:07:28,000 --> 00:07:30,000

Cool. What are they?

136

00:07:30,000 --> 00:07:32,000

First off, we're gonna see if Flashlight's attract sharks.

137

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

Oh, that sounds dangerous. What else?

138

00:07:34,000 --> 00:07:39,000

Then we're going to find out if Playing Dead is a good strategy in shark-infested waters.

139

00:07:39,000 --> 00:07:42,000

Like the sailors on the USS Indianapolis.

140

00:07:42,000 --> 00:07:44,000

And then we're doing one from Jaws.

141

00:07:44,000 --> 00:07:46,000

We're gonna find out if Dog's attract sharks.

142

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

Well, with a rundown like that, where are we gonna test everything?

143

00:07:48,000 --> 00:07:53,000

I don't know. How do you guys feel about, say, oh, the Bahamas?

144

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

Yeah, Bahamas! Cool!

145

00:07:56,000 --> 00:08:03,000

So it's time for the team to sit back, relax, and try not to get eaten in the shark capital of the world.

146

00:08:03,000 --> 00:08:12,000

With over 40 species in crystal clear water, the Bahamas is the ultimate destination for the Mythbusters shark bites.

147

00:08:12,000 --> 00:08:15,000

We're back at Stewart Cove's.

148

00:08:15,000 --> 00:08:20,000

But it seems that either the sun or the jet lag has got to Tory.

149

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

We are going to start at the giant iguana.

150

00:08:23,000 --> 00:08:30,000

And if that doesn't happen, we will go north until we see the two humongous parrots.

151

00:08:30,000 --> 00:08:36,000

Hopefully, they won't eat us. And let's not forget the floating dolphin head.

152

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

Everyone wants to see it. I know I do.

153

00:08:39,000 --> 00:08:43,000

Yep, after getting Tory some medication, the real plan is this.

154

00:08:43,000 --> 00:08:45,000

Find a boat, check.

155

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

Head out to sea, check.

156

00:08:47,000 --> 00:08:50,000

In Dusa feeding frenzy, check.

157

00:08:50,000 --> 00:08:53,000

And then chum the water with Tory.

158

00:08:53,000 --> 00:08:55,000

Here, let's give him a little bait.

159

00:08:57,000 --> 00:08:58,000

Check.

160

00:08:58,000 --> 00:09:01,000

Get back here, get back here, get back here, get back here.

161

00:09:02,000 --> 00:09:11,000

With everyone back on the boat, the next step is to get a feel for what they're up against with an exploratory safety dive.

162

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

Do we really want to go in there?

163

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

That's just a little one.

164

00:09:14,000 --> 00:09:19,000

An important step, because Tory and Grant, as divers, are nervous novices.

165

00:09:19,000 --> 00:09:27,000

Needless to say, I never thought I would learn to dive, really, because I'm afraid of the water.

166

00:09:27,000 --> 00:09:30,000

And, B, I don't like fish touching me.

167

00:09:30,000 --> 00:09:35,000

So, really, diving wasn't on my top list of things to do.

168

00:09:35,000 --> 00:09:39,000

Grant hasn't been this scared since he saw Finding Nemo.

169

00:09:39,000 --> 00:09:45,000

But once Mr. Courageous has finally squeezed into his wetsuit, it's just too late to back out now.

170

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

This fit a lot better before lunch.

171

00:09:47,000 --> 00:09:52,000

Wearing the latest in shark-resistant chain mail fashion, there's only one thing left to do.

172

00:09:52,000 --> 00:09:54,000

All right, bring on the sharks.

173

00:09:54,000 --> 00:09:56,000

Get wet.

174

00:09:58,000 --> 00:10:05,000

For the experiments to come, it's essential the team acclimatize to being surrounded by lots of sharks.

175

00:10:05,000 --> 00:10:09,000

Here, sharky sharky. Nice sharky.

176

00:10:09,000 --> 00:10:15,000

So once the safety divers see the team in a position on the seabed, they'll introduce the bait box.

177

00:10:15,000 --> 00:10:20,000

So when we first got down there, there were like five or six sharks kind of swimming around.

178

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

It was kind of a cool little magical experience.

179

00:10:22,000 --> 00:10:29,000

And then the chum box came down, and it got very, very real very quickly.

180

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

Whoa, they're going for it. This is mental.

181

00:10:32,000 --> 00:10:35,000

Grant, they're all over you.

182

00:10:35,000 --> 00:10:38,000

They're touching me, but I'm okay.

183

00:10:38,000 --> 00:10:42,000

The fish box gets open, and they just run into feeding Princey.

184

00:10:42,000 --> 00:10:45,000

They're all eating the fish, and it's psycho.

185

00:10:45,000 --> 00:10:48,000

They are everywhere, and they don't care that you're there.

186

00:10:48,000 --> 00:10:51,000

They're like in an obstacle. They're just knocking on down.

187

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

There's like a hundred of them. This is getting incredible.

188

00:10:55,000 --> 00:10:58,000

I can't believe I agreed to this.

189

00:10:58,000 --> 00:11:01,000

Well, I think we definitely came to the right place to test these mits.

190

00:11:10,000 --> 00:11:14,000

We have a great spot, and there are tons of sharks. So what's our first myth?

191

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

Our first myth comes from the survivors of the USS Indianapolis.

192

00:11:17,000 --> 00:11:20,000

Oh, now that's a ship that Quinn talks about in Jaws, right?

193

00:11:20,000 --> 00:11:24,000

Exactly. The USS Indianapolis was on a secret mission to deliver a bomb,

194

00:11:24,000 --> 00:11:29,000

but it was so secret that when they got hit by a torpedo, no one knew to come rescue them.

195

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

Now, some of the survivors claimed that playing dead is what actually saved their lives

196

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

because the sharks ignored them and went for the guys that were thrashing around.

197

00:11:40,000 --> 00:11:49,000

On July the 30th, 1945, the USS Indianapolis was torpedoed by a Japanese sub in the Philippine Sea.

198

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

900 crew went into the water alive. Just 317 survived.

199

00:11:58,000 --> 00:12:01,000

Joseph Tronnet was one of the fortunate few.

200

00:12:01,000 --> 00:12:09,000

But was it luck, or did Joe's strategy of playing dead whenever sharks were nearby keep him alive?

201

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

Okay, so here's the plan. We jump the heck out of the water.

202

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

We attract as many sharks as possible, and then you two jump in.

203

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

Well, no, that sounds like a bad idea.

204

00:12:17,000 --> 00:12:18,000

Who thought of that plan?

205

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

Carrie, like all masterminds, enjoys pulling the strings from a safe distance.

206

00:12:23,000 --> 00:12:27,000

Okay, you thrash around and you play dead, and we'll see who gets eaten.

207

00:12:27,000 --> 00:12:28,000

I hope they like sushi.

208

00:12:28,000 --> 00:12:30,000

Oh, I hope they like Italian.

209

00:12:31,000 --> 00:12:38,000

Unlike with the unprepared crew of the Indianapolis, to make sure that the sharks don't nibble on a little belaychee...

210

00:12:38,000 --> 00:12:41,000

Open that back up again, because each one of you gets a fish head in your pants.

211

00:12:41,000 --> 00:12:46,000

...or take a hunk of Imahara, the boys are wearing protection.

212

00:12:46,000 --> 00:12:48,000

They're not going to just chump the water and throw us in.

213

00:12:48,000 --> 00:12:54,000

We're actually wearing chain mail, which is specially designed to resist shark attack.

214

00:12:54,000 --> 00:12:58,000

In addition to that, we'll have two safety divers in the water.

215

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

One next to Tori and one next to me.

216

00:13:00,000 --> 00:13:04,000

They'll be ready to jump in if they see us get into trouble.

217

00:13:04,000 --> 00:13:05,000

Fish, fish, fish, fish!

218

00:13:05,000 --> 00:13:09,000

And talking of trouble, it's time to bring out the sharks.

219

00:13:09,000 --> 00:13:10,000

It's a good time!

220

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

That's so good!

221

00:13:12,000 --> 00:13:14,000

I have a very important role in this experiment.

222

00:13:14,000 --> 00:13:19,000

I'm going to be chumming the water with lots of delicious fish.

223

00:13:19,000 --> 00:13:21,000

Bringing all the sharks in.

224

00:13:21,000 --> 00:13:28,000

And then I'm going to basically just check their behaviors, see if they're more attracted to thrashing Tori or still grand.

225

00:13:28,000 --> 00:13:30,000

Yeah, Sharky Sharky!

226

00:13:30,000 --> 00:13:38,000

Some scientists think that the increased heart rate and frenetic movements of panicking sailors meant it was them that were picked off.

227

00:13:38,000 --> 00:13:43,000

And if that's true, then Tori's in for a terrifying afternoon.

228

00:13:43,000 --> 00:13:49,000

Do they like me, Tori or grand? Who will be eaten for dinner?

229

00:13:49,000 --> 00:13:56,000

And while Carrie's distributing delicious chum, Tori's more concerned about his bum.

230

00:13:56,000 --> 00:13:59,000

I'm just hoping that I don't aint only secrete anything.

231

00:13:59,000 --> 00:14:05,000

I also heard that urine is a good shark attractor, so I'm hoping I don't pee my wet suit.

232

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

Actually Tori, we busted that one.

233

00:14:08,000 --> 00:14:10,000

And there's no response at all.

234

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

But I'm not so sure about the twos.

235

00:14:12,000 --> 00:14:15,000

Hot tails and appetizers!

236

00:14:15,000 --> 00:14:19,000

As for Grant, Belly's got his therapist on speed dial.

237

00:14:19,000 --> 00:14:28,000

I have been kind of dreading this one because it combines my phobias of open water and fish touching me at the same time.

238

00:14:28,000 --> 00:14:37,000

I'm not really looking forward to jumping in the water after it's been chummed, which they say kind of makes the sharks a little bit more aggressive.

239

00:14:38,000 --> 00:14:46,000

And with around 20 Caribbean reef sharks in the middle of a full blown feeding frenzy, jumping into the water could be a problem.

240

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

There seems to be more shark than water.

241

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

You guys ready?

242

00:14:50,000 --> 00:14:51,000

No.

243

00:14:51,000 --> 00:14:55,000

Okay, this is it. It's time to separate the men from the boys.

244

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

So wrong!

245

00:14:57,000 --> 00:14:59,000

What the heck are we doing right now?

246

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

And hopefully not the limbs from the men.

247

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

Oh man, I gotta give you credit. I never do this.

248

00:15:06,000 --> 00:15:07,000

Yeah.

249

00:15:10,000 --> 00:15:17,000

Just when you thought it was safe to go back in the water, it's the Mythbusters Shark Bites Special.

250

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

And Jamie and Adam...

251

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

Get eye Bruce. Get eye.

252

00:15:23,000 --> 00:15:27,000

...are tackling the most popular myth in their mailbox.

253

00:15:28,000 --> 00:15:36,000

During the fearful frenzy of an attack, can you actually poke a shark in the eye before it's too late?

254

00:15:38,000 --> 00:15:40,000

We need to replicate a shark attack.

255

00:15:40,000 --> 00:15:47,000

And so rather than getting a big ass shark and convincing it to cooperate with us, we're going to build a mechanical one.

256

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

Now it needs to do several things.

257

00:15:49,000 --> 00:15:51,000

It needs to be able to bite like a real shark.

258

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

It needs to be able to shake its head like a real shark.

259

00:15:54,000 --> 00:16:00,000

And we also need to be able to put it in the water because the water is an important part of the physics involved.

260

00:16:01,000 --> 00:16:08,000

And to satisfy those criteria, Adam and Jamie are about to bring their fiberglass cast to life.

261

00:16:08,000 --> 00:16:12,000

Our shark is going to have roughly six points of articulation across his body.

262

00:16:12,000 --> 00:16:15,000

It's going to be a big steel beam with a hinge like that.

263

00:16:15,000 --> 00:16:23,000

In order to cut him up and attach him to that steel beam with its points of articulation, we need to carefully mark him at every point he is going to be able to get.

264

00:16:24,000 --> 00:16:28,000

We're going to bend him and open a gap up big enough so the fiberglass can handle it.

265

00:16:28,000 --> 00:16:31,000

And when we put it all back together, it's Robo Shark.

266

00:16:32,000 --> 00:16:38,000

With those gaps cut out and Bruce in sections, the team can get inside to strengthen him with a steel frame.

267

00:16:42,000 --> 00:16:48,000

And it's to this skeleton that the hinged and hydraulically powered spine will attach.

268

00:16:48,000 --> 00:16:54,000

This is my new favorite thing we've ever made.

269

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

Ain't done yet.

270

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

That's awesome.

271

00:16:57,000 --> 00:17:01,000

Look at all that room in there. We can give it a whole digestive tract.

272

00:17:01,000 --> 00:17:11,000

Ambitious, but while Jamie works on the spine, Adam decides gastroenterology is not for him and focuses on what could be loosely called orthodontics.

273

00:17:11,000 --> 00:17:12,000

Open wide.

274

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

He carefully fits the patient with a set of custom made steel goats.

275

00:17:18,000 --> 00:17:23,000

And then 90 serrated and sharpened anatomically correct steel teeth.

276

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

It's very important to brush after every meal.

277

00:17:31,000 --> 00:17:34,000

While Adam's been playing dentist Frankenstein,

278

00:17:34,000 --> 00:17:36,000

Behold our shark,

279

00:17:36,000 --> 00:17:41,000

Jamie's welded the steel and hydraulic skeletal system into place.

280

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

Oh, great.

281

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

And Bruce is almost ready to thrash into life.

282

00:17:49,000 --> 00:17:51,000

I think the structural stuff is pretty well there.

283

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

All we have to do from here is mount the head on.

284

00:17:54,000 --> 00:17:58,000

And with said head in place, Adam powers up the jaws.

285

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

Check this out.

286

00:18:01,000 --> 00:18:03,000

Giving Bruce his bite.

287

00:18:05,000 --> 00:18:08,000

Next, Adam tackles the all important eye area.

288

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

Ocular operation.

289

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

By adding emergency stop buttons.

290

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

That's how you turn them off.

291

00:18:19,000 --> 00:18:25,000

So a successful hit on the eye will cause Bruce to back off, enabling the victim to escape.

292

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

And after Adam adds the final touches,

293

00:18:28,000 --> 00:18:34,000

All mighty Bruce is ready for his myth busting debut.

294

00:18:38,000 --> 00:18:44,000

Sporting a set of anatomically accurate steel teeth with a spare set of rubber dentures.

295

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

Dude, it's so perfect.

296

00:18:48,000 --> 00:18:55,000

And hydraulically powered articulated steel skeleton and eyes sensitive to attack by gouging.

297

00:18:55,000 --> 00:18:58,000

It's another myth busters first.

298

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

Boys and girls meet Robo Shark.

299

00:19:02,000 --> 00:19:03,000

It's time to go swimming.

300

00:19:03,000 --> 00:19:05,000

It's time for his first meal.

301

00:19:05,000 --> 00:19:06,000

Ha ha ha ha.

302

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

Stranded for five long days in shark infested waters,

303

00:19:17,000 --> 00:19:23,000

Joseph Tronnet claimed playing dead kept him alive when so many others perished.

304

00:19:23,000 --> 00:19:28,000

But like a double lottery winner, was Joe simply unbelievably lucky?

305

00:19:28,000 --> 00:19:34,000

Or is his play dead technique really a viable strategy for surviving in shark infested water?

306

00:19:37,000 --> 00:19:42,000

It's putting that to the test that's making Tory and Grant understandably nervous.

307

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

Oh, what the heck are we doing right now?

308

00:19:46,000 --> 00:19:51,000

Well Tory, to the untrained eye, it looks like you're playing the part of Sharkbait.

309

00:19:52,000 --> 00:19:55,000

Oh man, I gotta give you credit. I never do this.

310

00:19:55,000 --> 00:19:56,000

Yeah.

311

00:19:56,000 --> 00:19:58,000

This is freaking scary.

312

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

This sucks. This sucks so bad.

313

00:20:06,000 --> 00:20:07,000

This sucks a lot.

314

00:20:07,000 --> 00:20:08,000

I don't want to do this.

315

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

Why the hell are we doing this?

316

00:20:12,000 --> 00:20:18,000

If they thought stepping out into the middle of a feeding frenzy was tough, it's about to get worse.

317

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

Much worse.

318

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

Grant plays dead.

319

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

You're still going very well.

320

00:20:23,000 --> 00:20:26,000

And Tory plays the part of a panicked seaman.

321

00:20:26,000 --> 00:20:29,000

Come on, Grant. Don't get to dinner.

322

00:20:29,000 --> 00:20:30,000

Come on.

323

00:20:30,000 --> 00:20:38,000

In the longest ten minutes of their lives, they're going to see who attracts more interest from the excited sharks.

324

00:20:38,000 --> 00:20:41,000

Oh, they're going straight for Tory because he's thrashing.

325

00:20:41,000 --> 00:20:42,000

Look at him.

326

00:20:42,000 --> 00:20:45,000

They're definitely more interested to all, wait, no, that one's going to Grant.

327

00:20:45,000 --> 00:20:52,000

From the get-go, the frenzied feeding sharks are curious, but it's not long before a clear pattern emerges.

328

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

You over the piece of me.

329

00:20:54,000 --> 00:20:58,000

Grant, our dead man floating, is being left alone.

330

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

He's keeping off an enemy.

331

00:21:01,000 --> 00:21:04,000

Whereas Tory is clearly catch of the day.

332

00:21:04,000 --> 00:21:08,000

It's only thanks to the safety divers that he's not actually being bitten.

333

00:21:08,000 --> 00:21:10,000

Oh my God, they're all going straight for you.

334

00:21:10,000 --> 00:21:12,000

Come on, get a dinner.

335

00:21:12,000 --> 00:21:13,000

Woo!

336

00:21:14,000 --> 00:21:15,000

Oh my God.

337

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

You dig over towards you.

338

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

Thrasher over that way, man.

339

00:21:20,000 --> 00:21:22,000

You talk a lot for a dead guy.

340

00:21:23,000 --> 00:21:27,000

With hysteria and exhaustion peaking, Cary puts the guys out of their misery.

341

00:21:27,000 --> 00:21:29,000

All right guys, I think we proved our point.

342

00:21:29,000 --> 00:21:31,000

Come back in.

343

00:21:31,000 --> 00:21:33,000

And the shark bait can climb aboard.

344

00:21:33,000 --> 00:21:36,000

That was the scariest thing ever.

345

00:21:36,000 --> 00:21:39,000

Most of these kept grabbing my food.

346

00:21:40,000 --> 00:21:43,000

It was like every nightmare I've ever had rolled up into one.

347

00:21:43,000 --> 00:21:46,000

First of all, you're struggling out in the open water.

348

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

You've got to lie fast, but it's really hard on the waves to be crashing over.

349

00:21:50,000 --> 00:21:54,000

The hitch in the face, your eyes staying, and everything hurts.

350

00:21:54,000 --> 00:21:56,000

And you're still trying to breathe.

351

00:21:57,000 --> 00:21:59,000

That was really intense.

352

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

That is up there with one of the scariest things I've ever done.

353

00:22:04,000 --> 00:22:09,000

I mean, jumping out of planes, trying to get crocodiles to chase you.

354

00:22:11,000 --> 00:22:13,000

Playing in the ring with bulls.

355

00:22:13,000 --> 00:22:14,000

Those are scary things.

356

00:22:14,000 --> 00:22:20,000

But man, just looking out at the water and having just sharks come up and you see their fins

357

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

and someone's telling you, go jump in there and thrash around.

358

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

That's a scary place to be.

359

00:22:26,000 --> 00:22:30,000

Scary and intense just about sums it up.

360

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

But what about the test itself?

361

00:22:32,000 --> 00:22:35,000

I clearly saw the toy with all the thrashing around was getting way more interest.

362

00:22:35,000 --> 00:22:37,000

There were more sharks circling them.

363

00:22:37,000 --> 00:22:39,000

They were a lot closer than the sharks checked out for ant.

364

00:22:39,000 --> 00:22:41,000

It keeps morphing into me.

365

00:22:41,000 --> 00:22:42,000

A lot closer.

366

00:22:43,000 --> 00:22:49,000

A result that backs up the theory that sharks are attracted to panicky erratic movement

367

00:22:49,000 --> 00:22:53,000

because they associate those cues with injured fish.

368

00:22:53,000 --> 00:22:54,000

You know, dinner.

369

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

All right, can we confirm this one?

370

00:22:56,000 --> 00:22:59,000

Better to play dead than to thrash around and shark infest the waters.

371

00:22:59,000 --> 00:23:01,000

Well, nothing touched me.

372

00:23:01,000 --> 00:23:05,000

Well, I'm not sure yet because they might have just been attracted to Tori.

373

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

He might have been a bigger target.

374

00:23:07,000 --> 00:23:08,000

So what do you say?

375

00:23:08,000 --> 00:23:10,000

I'm thinking to do this properly.

376

00:23:10,000 --> 00:23:15,000

Now you play dead and now you thrash around and we see if the sharks switched to going after you.

377

00:23:15,000 --> 00:23:16,000

And then we'll know for sure.

378

00:23:16,000 --> 00:23:17,000

We're gonna go back in the water.

379

00:23:17,000 --> 00:23:19,000

Oh, damn you and your science.

380

00:23:19,000 --> 00:23:24,000

So it's cue take two, but this time Tori's playing dead.

381

00:23:24,000 --> 00:23:25,000

I died.

382

00:23:25,000 --> 00:23:27,000

I died of a bad disease.

383

00:23:27,000 --> 00:23:28,000

You don't want to eat me.

384

00:23:28,000 --> 00:23:29,000

I got rigmaritous.

385

00:23:29,000 --> 00:23:30,000

I taste terrible.

386

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

It's just very tough.

387

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

And Grant is playing the part of the Panic Stricton Mariner.

388

00:23:35,000 --> 00:23:36,000

Help!

389

00:23:36,000 --> 00:23:37,000

Help!

390

00:23:37,000 --> 00:23:38,000

Really realistic.

391

00:23:38,000 --> 00:23:40,000

It's almost like you're scared.

392

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

Something just touched me.

393

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

I think that was a shark.

394

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

Right there.

395

00:23:45,000 --> 00:23:46,000

Come on.

396

00:23:46,000 --> 00:23:47,000

That is intense.

397

00:23:47,000 --> 00:23:48,000

Come on.

398

00:23:48,000 --> 00:23:49,000

Yep.

399

00:23:49,000 --> 00:23:53,000

Grant is putting everything he's got into the role of the terrified shipwreck victim.

400

00:23:53,000 --> 00:23:54,000

Look at it.

401

00:23:54,000 --> 00:23:58,000

And Tori thoughtfully provides additional motivation.

402

00:23:58,000 --> 00:23:59,000

He didn't harm.

403

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

They're just hungry.

404

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

With take twos ten minutes up,

405

00:24:03,000 --> 00:24:06,000

Carrie once again says the magic words.

406

00:24:06,000 --> 00:24:07,000

All right.

407

00:24:07,000 --> 00:24:08,000

Come back in.

408

00:24:08,000 --> 00:24:10,000

I think we might have confirmed this one.

409

00:24:10,000 --> 00:24:11,000

Oh, my God.

410

00:24:11,000 --> 00:24:12,000

That was so exciting.

411

00:24:12,000 --> 00:24:13,000

Talk about an adrenaline rush.

412

00:24:13,000 --> 00:24:18,000

Yeah, but one person's adrenaline rush is another person's living hell.

413

00:24:18,000 --> 00:24:19,000

You might have heard me shout a lot,

414

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

but there was one time in particular where something bumped into me.

415

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

I think I said something like,

416

00:24:23,000 --> 00:24:25,000

I'm not gonna get in the water.

417

00:24:25,000 --> 00:24:26,000

I'm gonna get in the water.

418

00:24:26,000 --> 00:24:27,000

I'm gonna get in the water.

419

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

I'm gonna get in the water.

420

00:24:28,000 --> 00:24:29,000

I'm gonna get in the water.

421

00:24:29,000 --> 00:24:30,000

I'm gonna get in the water.

422

00:24:30,000 --> 00:24:31,000

I think I said something like,

423

00:24:31,000 --> 00:24:32,000

F\*\*\*!

424

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

Nothing just touched me!

425

00:24:34,000 --> 00:24:39,000

And it was kind of like up in my thigh region.

426

00:24:39,000 --> 00:24:40,000

Terrifying.

427

00:24:40,000 --> 00:24:43,000

While Grant and Tori...

428

00:24:43,000 --> 00:24:46,000

Let's do it again!

429

00:24:46,000 --> 00:24:49,000

...recover in their own unique way,

430

00:24:49,000 --> 00:24:51,000

let's get a conclusion from the testmeister.

431

00:24:51,000 --> 00:24:53,000

When Grant was thrashing around,

432

00:24:53,000 --> 00:24:54,000

F\*\*\*!

433

00:24:54,000 --> 00:24:55,000

Nothing just touched me!

434

00:24:55,000 --> 00:24:56,000

Same result.

435

00:24:56,000 --> 00:24:59,000

All the sharks came up to him to see what was going on.

436

00:24:59,000 --> 00:25:02,000

Tori, eh, couldn't care less.

437

00:25:02,000 --> 00:25:07,000

Which backs up legendary accounts from the survivors of the USS Indianapolis.

438

00:25:07,000 --> 00:25:12,000

Stranded for five long days in shark-infested water,

439

00:25:12,000 --> 00:25:17,000

the simple act of playing dead kept some of them alive.

440

00:25:17,000 --> 00:25:19,000

That was so much fun.

441

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

Fun? You call that fun?

442

00:25:21,000 --> 00:25:23,000

That was one of the scariest things I've ever done in my life.

443

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

Well, kudos to both of you for putting your lives on the line for science.

444

00:25:26,000 --> 00:25:28,000

Well, we did get some really good results.

445

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

Thrashing around definitely attracts more sharks than playing dead.

446

00:25:31,000 --> 00:25:32,000

And that fits with the science,

447

00:25:32,000 --> 00:25:35,000

because sharks have all sorts of sensitive instrumentation

448

00:25:35,000 --> 00:25:36,000

that helps alert them to food.

449

00:25:36,000 --> 00:25:39,000

All the noise and electrical stimulus from the thrashing around

450

00:25:39,000 --> 00:25:40,000

caused them to be very curious.

451

00:25:40,000 --> 00:25:41,000

So this one's confirmed.

452

00:25:41,000 --> 00:25:44,000

If you're in shark-infested waters, your best bet is to play dead.

453

00:25:44,000 --> 00:25:46,000

I think your best bet is stay on the boat.

454

00:25:46,000 --> 00:25:48,000

Oh, easy for you to say.

455

00:25:48,000 --> 00:25:50,000

I can't believe you made us go in twice.

456

00:25:50,000 --> 00:25:53,000

So you're going myself? What am I, crazy?

457

00:25:59,000 --> 00:26:03,000

Back on board the Mythbusters Shark Bite Special.

458

00:26:03,000 --> 00:26:07,000

Adam and Jamie have given Evolution a helping hand.

459

00:26:07,000 --> 00:26:11,000

They've built Carcaradon Carcarias Robotica.

460

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

Time to go swimming.

461

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

And later they'll be setting Bruce free.

462

00:26:19,000 --> 00:26:23,000

Feeding him, Adam, and testing weather in the heat of battle,

463

00:26:23,000 --> 00:26:27,000

reaching a shark's eye is even possible.

464

00:26:28,000 --> 00:26:32,000

But first they're taking a sunny sabbatical.

465

00:26:32,000 --> 00:26:36,000

Flying first-class graphics, the boys hit the Bahamas,

466

00:26:36,000 --> 00:26:39,000

where the Gulf Stream Eagle awaits.

467

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

You're going to either sleep like a baby

468

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

or puke the whole time.

469

00:26:43,000 --> 00:26:45,000

I hope it's the former.

470

00:26:45,000 --> 00:26:48,000

I'm totally excited about going swimming with sharks,

471

00:26:48,000 --> 00:26:50,000

and I'm also a little bit nervous.

472

00:26:50,000 --> 00:26:51,000

It's a gorgeous boat.

473

00:26:51,000 --> 00:26:56,000

I have shown a proclivity to illness on seagoing vessels.

474

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

There was the boat we took out to the Feralon Islands

475

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

to look for great whites out there.

476

00:27:02,000 --> 00:27:07,000

There was the great white boat we took in South Africa.

477

00:27:07,000 --> 00:27:10,000

Then there's the Whirlpool of Death.

478

00:27:10,000 --> 00:27:12,000

Well, that's great.

479

00:27:14,000 --> 00:27:17,000

So the next few days could either be heaven on earth

480

00:27:17,000 --> 00:27:18,000

or a living hell.

481

00:27:18,000 --> 00:27:20,000

It's a fine line, Adam,

482

00:27:20,000 --> 00:27:24,000

but it's not something salty sea dog Heinemann has to worry about.

483

00:27:24,000 --> 00:27:26,000

We're going to have an adventure.

484

00:27:31,000 --> 00:27:33,000

And the adventure begins

485

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

with a two-hour journey across sparkling azure waters.

486

00:27:37,000 --> 00:27:39,000

Their destination?

487

00:27:39,000 --> 00:27:40,000

Tiger Beach.

488

00:27:40,000 --> 00:27:43,000

This is absolutely the best part of this job,

489

00:27:43,000 --> 00:27:45,000

getting to come to a place like this

490

00:27:45,000 --> 00:27:48,000

and swim with freaking sharks.

491

00:27:48,000 --> 00:27:52,000

The name Bahamas comes from the Spanish for shallow seas,

492

00:27:52,000 --> 00:27:55,000

and that's exactly what Tiger Beach is,

493

00:27:55,000 --> 00:27:58,000

a shallow sandy shelf in open water,

494

00:27:58,000 --> 00:28:01,000

open shark-infested water.

495

00:28:01,000 --> 00:28:04,000

This place, within the last two weeks,

496

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

had a fatality from a shark attack.

497

00:28:07,000 --> 00:28:08,000

It's serious business.

498

00:28:08,000 --> 00:28:10,000

We need to be careful here.

499

00:28:11,000 --> 00:28:12,000

Looks good.

500

00:28:12,000 --> 00:28:14,000

There's a nice little shark.

501

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

I can't quite see which one it is.

502

00:28:16,000 --> 00:28:17,000

That one?

503

00:28:17,000 --> 00:28:19,000

Well, that's a tiger shark.

504

00:28:20,000 --> 00:28:23,000

Named for the dark stripes found on the juveniles,

505

00:28:23,000 --> 00:28:26,000

the tiger shark, with its excellent eyesight

506

00:28:26,000 --> 00:28:30,000

and a keen sense of smell, is a formidable hunter.

507

00:28:30,000 --> 00:28:34,000

Second only to the great white in numbers of attacks on humans,

508

00:28:34,000 --> 00:28:38,000

it's also a shark to be fearfully respected.

509

00:28:38,000 --> 00:28:40,000

Well, let's get suited up.

510

00:28:40,000 --> 00:28:42,000

I can't wait to get down there.

511

00:28:44,000 --> 00:28:46,000

And their first dive down there

512

00:28:46,000 --> 00:28:49,000

is an opportunity to scout the location

513

00:28:49,000 --> 00:28:52,000

and the local sharks for the tests to come.

514

00:28:55,000 --> 00:28:59,000

I'm dumping in these shark-infested waters for science.

515

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

But not alone and unprotected,

516

00:29:02,000 --> 00:29:06,000

marine biologist Luke Tipple will be monitoring shark behavior

517

00:29:06,000 --> 00:29:09,000

and watching Adam and Jamie's backs on every dive.

518

00:29:12,000 --> 00:29:14,000

Talk about an adrenaline rush.

519

00:29:14,000 --> 00:29:16,000

We had all the safety stuff figured out

520

00:29:16,000 --> 00:29:18,000

and Luke was super experienced.

521

00:29:22,000 --> 00:29:25,000

See in the size of those sharks and how many there were?

522

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

I was just glad that there was a cage for me to get inside of.

523

00:29:36,000 --> 00:29:38,000

Despite their rather friendly name,

524

00:29:38,000 --> 00:29:43,000

lemon sharks come 13th in the list of unprovoked shark attacks on humans.

525

00:29:43,000 --> 00:29:46,000

And this big, they're not to be underestimated.

526

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

It was a great dive spot about 30 feet deep, good visibility,

527

00:29:51,000 --> 00:29:55,000

and the ocean technology system was working perfectly well.

528

00:29:55,000 --> 00:29:57,000

And most importantly, there were plenty of sharks.

529

00:29:57,000 --> 00:30:01,000

A few nerve sharks showed up, but it was mostly lemon sharks.

530

00:30:01,000 --> 00:30:03,000

They seem to think we look kind of yummy.

531

00:30:03,000 --> 00:30:05,000

They keep checking us out.

532

00:30:05,000 --> 00:30:10,000

The much feared tiger sharks are staying clear of the action for now.

533

00:30:10,000 --> 00:30:14,000

But one thing's for sure, the guys have come to the right place.

534

00:30:16,000 --> 00:30:18,000

This location could not be better.

535

00:30:18,000 --> 00:30:20,000

The water is teeming with sharks.

536

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

It is perfect for our experiments.

537

00:30:23,000 --> 00:30:27,000

With the perfect location, it's time to attract a new myth.

538

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

This right here is our next test.

539

00:30:32,000 --> 00:30:34,000

Really? Magnets?

540

00:30:34,000 --> 00:30:37,000

Yeah, could be the next wave in shark repelling technology.

541

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

Magnets repelling sharks? How is that supposed to work?

542

00:30:41,000 --> 00:30:45,000

Well, we do know that sharks can sense electromagnetic fields,

543

00:30:45,000 --> 00:30:47,000

so there could be something to it.

544

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

The applications would be amazing on surfboards, wetsuits.

545

00:30:50,000 --> 00:30:54,000

You could potentially swim in a whole school of big, fat sharks and be safe as houses.

546

00:30:54,000 --> 00:30:56,000

Hold on there, cowboy.

547

00:30:56,000 --> 00:31:00,000

Just in case it doesn't work, we should try it out on a small shark first.

548

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

I totally agree.

549

00:31:04,000 --> 00:31:06,000

Magnets a shark repellent?

550

00:31:08,000 --> 00:31:10,000

Well, it is possible.

551

00:31:10,000 --> 00:31:13,000

A shark snout is jam-packed with sensitive receptor organs

552

00:31:13,000 --> 00:31:16,000

called the ampuli of Lorenzini.

553

00:31:17,000 --> 00:31:22,000

They detect the electromagnetic field that all living organisms emit.

554

00:31:23,000 --> 00:31:28,000

So a strong magnetic field may indeed prevent a shark from getting too nosy.

555

00:31:29,000 --> 00:31:33,000

At Tiger Beach, small-scale sharks are in short supply.

556

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

So back ashore, Adam and Jamie revisit the biological field station at Bimini,

557

00:31:39,000 --> 00:31:43,000

where Dr. Samuel Gruber has just what the team need.

558

00:31:45,000 --> 00:31:49,000

Doc is actually going to take a shark, put it into what he calls tonic immobility,

559

00:31:49,000 --> 00:31:51,000

effectively putting it in a trance.

560

00:31:51,000 --> 00:31:54,000

It's a simple matter of turning him over.

561

00:31:54,000 --> 00:31:57,000

And then we're going to introduce a magnet and see what the shark does.

562

00:31:57,000 --> 00:32:02,000

Okay, he's a slain. You can do all kinds of stuff to him and tickle his belly and whatnot.

563

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

He's not going to do much.

564

00:32:04,000 --> 00:32:08,000

With the lemon shark pup dozing and confused, the testing can begin.

565

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

For the first test, we're just going to do the magnet and see if we get a response.

566

00:32:13,000 --> 00:32:15,000

Okay, here we go.

567

00:32:16,000 --> 00:32:19,000

There he goes. I didn't do that. Now, go ahead and do it again.

568

00:32:21,000 --> 00:32:23,000

See, he's bending away from it.

569

00:32:23,000 --> 00:32:28,000

Not entirely convincing, but with the shark conscious, a reaction to the same action...

570

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

Whoa! He almost got away.

571

00:32:31,000 --> 00:32:33,000

...is more compelling.

572

00:32:33,000 --> 00:32:34,000

Go ahead.

573

00:32:36,000 --> 00:32:40,000

But to make sure, they're going to tweak the experiment using a smaller,

574

00:32:40,000 --> 00:32:45,000

but more powerful neodymium magnet and a young nurse shark.

575

00:32:46,000 --> 00:32:53,000

Now, I'm putting a plastic card over the shark's eye so that we can be sure that he's reacting to the magnetism itself

576

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

and not to the sight of the magnet being brought close to him.

577

00:32:56,000 --> 00:32:57,000

Come right in.

578

00:32:58,000 --> 00:32:59,000

Whoa!

579

00:32:59,000 --> 00:33:02,000

He did jump. He totally jumped. He jumped and he bit at it.

580

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

That's a result.

581

00:33:03,000 --> 00:33:04,000

That's a result.

582

00:33:04,000 --> 00:33:06,000

But what's that result telling us?

583

00:33:07,000 --> 00:33:09,000

Was the shark pup repelled as per the myth?

584

00:33:10,000 --> 00:33:12,000

Or was it trying to attack the magnet?

585

00:33:13,000 --> 00:33:14,000

One, two, three, go!

586

00:33:14,000 --> 00:33:17,000

Not exactly a useful attribute in shark repelling technology.

587

00:33:19,000 --> 00:33:25,000

To find out, Adam has a plan so cunning, you could put whiskers on it and call it a weasel.

588

00:33:26,000 --> 00:33:32,000

He'll be drawing a magnetic line in the sand and asking this young nurse shark to cross it.

589

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

The field that we're testing in is basically a long, rectangular alley of water.

590

00:33:37,000 --> 00:33:42,000

For the control, we expect to see the shark swim up and down this track with no inhibitions.

591

00:33:42,000 --> 00:33:49,000

Then we're going to place a line of magnets somewhere along that track and see if the shark either resists crossing that line of magnets

592

00:33:49,000 --> 00:33:51,000

or doesn't care that they're there at all.

593

00:33:52,000 --> 00:33:54,000

Okay, but what about the...

594

00:33:54,000 --> 00:33:59,000

Because I'm psychic, I can tell what you're going to say when we lay a line of these ceramic magnets out

595

00:33:59,000 --> 00:34:01,000

and watch the shark be resisted by them.

596

00:34:01,000 --> 00:34:07,000

You're going to say, oh, but the shark's just disturbed by seeing a big line of stuff in their tank.

597

00:34:07,000 --> 00:34:08,000

But we've already thought of that.

598

00:34:08,000 --> 00:34:10,000

That's why we're going to start with the control.

599

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

We're going to lay a line of these innocuous lead weights across the tank.

600

00:34:13,000 --> 00:34:17,000

And hopefully we'll see the shark not care about these at all from a visual standpoint.

601

00:34:18,000 --> 00:34:19,000

Here he comes.

602

00:34:19,000 --> 00:34:20,000

Yeah?

603

00:34:20,000 --> 00:34:21,000

He totally crossed the line.

604

00:34:21,000 --> 00:34:22,000

That was beautiful.

605

00:34:22,000 --> 00:34:24,000

And it did it in front of all of our cameras.

606

00:34:24,000 --> 00:34:26,000

It's a very cooperative shark.

607

00:34:26,000 --> 00:34:28,000

That is what I call an excellent control.

608

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

The line of lead weights going right across the pen did not stop the shark at all.

609

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

Now we're going to replace the lead weights with magnets and see if we get a different result.

610

00:34:40,000 --> 00:34:41,000

Yeah, sharky, sharky.

611

00:34:41,000 --> 00:34:42,000

Here he comes.

612

00:34:43,000 --> 00:34:44,000

Come on.

613

00:34:44,000 --> 00:34:45,000

Oh.

614

00:34:45,000 --> 00:34:47,000

It's not quite definitive, is it?

615

00:34:47,000 --> 00:34:51,000

Not on its own, but after several repeat performances.

616

00:34:52,000 --> 00:34:54,000

Multiple times we induce the shark up to the line.

617

00:34:54,000 --> 00:34:57,000

Every single time he stopped about one foot away.

618

00:34:57,000 --> 00:34:59,000

Adam comes to a conclusion.

619

00:34:59,000 --> 00:35:06,000

He sniffed along it, went back the other way, or he would just do a full 180 and turn back the other way, never crossing the line.

620

00:35:06,000 --> 00:35:09,000

It's pretty clear that the magnets are a shark repellent.

621

00:35:09,000 --> 00:35:13,000

But it's a small scale result with small scale sharks.

622

00:35:13,000 --> 00:35:18,000

But what happens when you upsize the sharks and induce a feeding frenzy?

623

00:35:18,000 --> 00:35:20,000

Oh, it's got a hand.

624

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

Back in San Francisco, Carrie Grant and Tori are tackling a canine conundrum that's been around since Jaws chowed down on a paddling pooch.

625

00:35:36,000 --> 00:35:44,000

But in the real world, a number of shark attacks have been blamed on swimming dogs.

626

00:35:44,000 --> 00:35:53,000

The theory being their excited, erratic doggy paddle and pungent pooch perfume draw sharks from far and wide.

627

00:35:53,000 --> 00:35:57,000

But is your pet pup really an irresistible shark snack?

628

00:35:57,000 --> 00:36:02,000

Or is it just a case of being in the wrong place at the wrong time?

629

00:36:03,000 --> 00:36:05,000

Alright, so what's the plan?

630

00:36:05,000 --> 00:36:08,000

Well, obviously we're not going to throw a real dog in the water.

631

00:36:08,000 --> 00:36:11,000

Why not? That seems like the easiest way to test this, man.

632

00:36:11,000 --> 00:36:13,000

Don't listen to him, Gertie.

633

00:36:13,000 --> 00:36:16,000

Alright, well since we can't use Gertie, you know what that means.

634

00:36:16,000 --> 00:36:17,000

You want to build a robot?

635

00:36:17,000 --> 00:36:18,000

Yes!

636

00:36:18,000 --> 00:36:22,000

It's going to have to be a pretty realistic robot to fool the finely tuned senses of a shark.

637

00:36:22,000 --> 00:36:25,000

Well, making it smell and sound like a dog should be easy enough.

638

00:36:25,000 --> 00:36:28,000

And I can make it waterproof and give it a realistic swimming motion.

639

00:36:28,000 --> 00:36:30,000

But for that, we're going to need Gertie.

640

00:36:30,000 --> 00:36:32,000

Gertie, do you know how to swim?

641

00:36:34,000 --> 00:36:37,000

It's another world first on Mythbusters.

642

00:36:38,000 --> 00:36:45,000

A barking, urinating, swimming canine robot that all starts with building a dog aquarium?

643

00:36:45,000 --> 00:36:52,000

Grant's going to build a robot dog, but it needs to swim just like a real dog in order to fool the shark into thinking it's a real dog.

644

00:36:52,000 --> 00:36:54,000

So, I have this take set up.

645

00:36:54,000 --> 00:36:57,000

We're going to put Carrie's dog in here, watch her swim.

646

00:36:57,000 --> 00:37:04,000

And that's the way Grant will be able to take a high speed shot and make his robot swim the way a real dog would swim.

647

00:37:04,000 --> 00:37:11,000

Gertie's motivation comes courtesy of a tennis ball and more enthusiasm than a bus full of cheerleaders.

648

00:37:11,000 --> 00:37:13,000

You want the ball?

649

00:37:13,000 --> 00:37:15,000

Oh, look how much you want it.

650

00:37:15,000 --> 00:37:17,000

Torey, stay.

651

00:37:17,000 --> 00:37:20,000

At first, Gertie's rather reluctant to play ball.

652

00:37:22,000 --> 00:37:25,000

But after a stern talking to from Torey...

653

00:37:26,000 --> 00:37:28,000

This is for science.

654

00:37:28,000 --> 00:37:30,000

She takes the plunge.

655

00:37:31,000 --> 00:37:36,000

The team's voices break nearby windows and the cameraman gets the shot.

656

00:37:41,000 --> 00:37:45,000

So, Grant has the shot he needs to mimic a doggy paddling.

657

00:37:45,000 --> 00:37:50,000

A chaotic action that supposedly sounds like injured and distressed prey.

658

00:37:50,000 --> 00:37:54,000

Music to any self-respecting shark's ears.

659

00:37:55,000 --> 00:37:57,000

Now, let's see if Grant can make a robot that goes...

660

00:38:03,000 --> 00:38:08,000

Not many people know this, but Grant was actually raised by robotic dogs.

661

00:38:08,000 --> 00:38:12,000

So, building an air powered robo-dog should be a breeze.

662

00:38:12,000 --> 00:38:20,000

Now, because sharks are very sensitive to electromagnetic fields, I've ruled out electric motors.

663

00:38:20,000 --> 00:38:23,000

So, this is the heart of robo-dog.

664

00:38:23,000 --> 00:38:25,000

This is an air powered motor.

665

00:38:25,000 --> 00:38:28,000

The idea is that the motor turns, which turns these gears,

666

00:38:28,000 --> 00:38:32,000

that will go down to the actual arms and legs of robo-dog.

667

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

And that goes a little something like this.

668

00:38:39,000 --> 00:38:41,000

Pretty sexy, huh?

669

00:38:41,000 --> 00:38:45,000

Accurate air powered movement is just part one of this robot.

670

00:38:45,000 --> 00:38:48,000

To make robo-dog as close a simulation as possible,

671

00:38:48,000 --> 00:38:53,000

Carrie and her canines are on the scent trail of part two.

672

00:38:53,000 --> 00:38:56,000

So, oh so real pooch perfume.

673

00:38:56,000 --> 00:39:01,000

So, we're working on this myth that dogs attract sharks.

674

00:39:01,000 --> 00:39:06,000

And we were hoping to take some syringes full of like, you know, dog scent.

675

00:39:06,000 --> 00:39:08,000

And here they have a gland.

676

00:39:08,000 --> 00:39:11,000

Yeah, there's two glands actually on the backside of dogs.

677

00:39:11,000 --> 00:39:13,000

They're called the anal glands.

678

00:39:13,000 --> 00:39:15,000

And it's the reason why dogs sniff each other's butts a lot of times

679

00:39:15,000 --> 00:39:17,000

is because they pick up information.

680

00:39:17,000 --> 00:39:20,000

Where they've been, what they've been doing, who they've been hanging out with, that kind of stuff.

681

00:39:20,000 --> 00:39:24,000

Think of them as a business card that the dog leaves behind when he goes to the bathroom.

682

00:39:24,000 --> 00:39:30,000

But on a routine basis, we can express these guys glands and get the secretions.

683

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

And so for that essence of owed a dog, Gertie steps up for her routine procedure.

684

00:39:37,000 --> 00:39:38,000

All right Gertie.

685

00:39:38,000 --> 00:39:44,000

Viewers and dogs of a nervous disposition may want to look away now.

686

00:39:46,000 --> 00:39:50,000

Well, that one wasn't too bad. That one expressed really easily.

687

00:39:50,000 --> 00:39:52,000

Oh, that's awful.

688

00:39:52,000 --> 00:39:53,000

Yeah, yeah.

689

00:39:53,000 --> 00:39:56,000

Oh my God, that smells so bad.

690

00:39:56,000 --> 00:40:01,000

While Gertie recovers from the indignity of having her bum squeezed on TV.

691

00:40:01,000 --> 00:40:04,000

Your anal glands are expressed for science.

692

00:40:07,000 --> 00:40:12,000

Her owner also gets hold of some previously obtained dog blood and dog urine.

693

00:40:12,000 --> 00:40:16,000

Giving her a hot trick of pooch perfume.

694

00:40:16,000 --> 00:40:18,000

Thanks very much for coming in.

695

00:40:18,000 --> 00:40:20,000

You washed that hand, right?

696

00:40:20,000 --> 00:40:21,000

Of course.

697

00:40:21,000 --> 00:40:22,000

Okay.

698

00:40:22,000 --> 00:40:23,000

See you.

699

00:40:23,000 --> 00:40:31,000

And after an understandably hasty exit, Cary gets back to the shop where RoboDog is starting to look the real deal.

700

00:40:31,000 --> 00:40:34,000

RoboDog is all coming together.

701

00:40:34,000 --> 00:40:36,000

We've got paws, we've got legs.

702

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

With the head on, it's actually starting to blow like a dog.

703

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

And thanks to Gert, it's also going to smell like one.

704

00:40:43,000 --> 00:40:44,000

Right on cue.

705

00:40:44,000 --> 00:40:54,000

So I have a remote system for deploying the syringes whenever we want to put some blood or some urine or some anal secretion in the water to attract the shark.

706

00:40:54,000 --> 00:40:57,000

All we have to do is give it some air.

707

00:41:00,000 --> 00:41:06,000

And after Cary adds a waterproof barking loudspeaker, the team packs him up and sends him to the Bahamas.

708

00:41:07,000 --> 00:41:10,000

Good boy, RoboDog.

709

00:41:10,000 --> 00:41:12,000

I was going to get a treatment to get to the Bahamas.

710

00:41:12,000 --> 00:41:13,000

That's right, fella.

711

00:41:13,000 --> 00:41:15,000

They're going to throw you in with the sharks.

712

00:41:21,000 --> 00:41:27,000

Adam and Jamie are tackling a new shark repelling technology, one with mythical properties.

713

00:41:27,000 --> 00:41:28,000

Oh!

714

00:41:28,000 --> 00:41:31,000

Do magnets really repel sharks?

715

00:41:31,000 --> 00:41:33,000

Wow, that was totally definitive.

716

00:41:34,000 --> 00:41:40,000

So far, they've seen shark pups nervously back off when confronted by a magnetic field.

717

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

That was awesome.

718

00:41:41,000 --> 00:41:48,000

Meaning the idea that magnets upset a shark's electromagnetic sensory balance is looking plausible.

719

00:41:51,000 --> 00:41:59,000

And back at Tiger Beach, Adam and Jamie will put that theory to the test by upsizing the magnets and the sharks.

720

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

For the final magnet test, we're going to be dealing with full-sized sharks.

721

00:42:04,000 --> 00:42:12,000

And how we're going to do it is we're going to fill these milk crates with fish that we know that normally the sharks are going to go after.

722

00:42:12,000 --> 00:42:16,000

But this time, we're going to cover these bait boxes with magnets.

723

00:42:16,000 --> 00:42:17,000

I've got big ones.

724

00:42:17,000 --> 00:42:18,000

I've got little ones.

725

00:42:18,000 --> 00:42:22,000

This box is going to be literally bristling with magnets.

726

00:42:22,000 --> 00:42:26,000

If the sharks take this, we'll know magnets don't repel sharks.

727

00:42:26,000 --> 00:42:30,000

Okay, but how do we know if the sharks are behaving out of the ordinary?

728

00:42:30,000 --> 00:42:36,000

For our control test, we're going to need to bring some sharks around and watch them behave around a normal chum box.

729

00:42:36,000 --> 00:42:38,000

Oh, yeah.

730

00:42:38,000 --> 00:42:40,000

Oh, I got some on my face.

731

00:42:40,000 --> 00:42:46,000

If you're wondering how this smells, it's just as bad as you think.

732

00:42:46,000 --> 00:42:48,000

I'm going to wrap it up like Christmas.

733

00:42:49,000 --> 00:42:55,000

As for why I'm not seasick out here on the water, the exact conditions I've been seasick with for,

734

00:42:55,000 --> 00:43:00,000

especially when I'm working with fish guts, I have no explanation, but I feel great.

735

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

And I'm glad that I feel great.

736

00:43:02,000 --> 00:43:05,000

I'm sorry you don't get to watch me spew chunks.

737

00:43:05,000 --> 00:43:08,000

Oh, Contrere, Monsieur Savage.

738

00:43:09,000 --> 00:43:11,000

Oh, that's great.

739

00:43:12,000 --> 00:43:14,000

I think we're all set.

740

00:43:14,000 --> 00:43:15,000

Got plenty of sharks.

741

00:43:15,000 --> 00:43:16,000

Let's do it.

742

00:43:16,000 --> 00:43:23,000

On this control, Adam will observe from underwater and Jamie will man the comms tops of her.

743

00:43:23,000 --> 00:43:27,000

I'm in position, bring in the control bait box.

744

00:43:27,000 --> 00:43:36,000

Safety diver Luke positions the non-magnetic bait box front and center, and because he knows what's about to happen, gets clear fast.

745

00:43:37,000 --> 00:43:39,000

Adam, have you seen any tigers yet?

746

00:43:39,000 --> 00:43:40,000

Over.

747

00:43:40,000 --> 00:43:41,000

Not at all.

748

00:43:41,000 --> 00:43:46,000

There does seem to be one in the distance circling around, but it's loosely moving, sir.

749

00:43:46,000 --> 00:43:47,000

Over.

750

00:43:47,000 --> 00:43:48,000

Copy that.

751

00:43:48,000 --> 00:43:53,000

Add with the irresistible aroma of fish guts wafting through the water.

752

00:43:54,000 --> 00:43:58,000

You know, I go to the two or three feet away from me, and boy, they look hungry.

753

00:43:58,000 --> 00:44:02,000

It's not long before those lemon sharks come snacking.

754

00:44:02,000 --> 00:44:04,000

Oh, it's got a fish!

755

00:44:04,000 --> 00:44:05,000

Ha ha ha!

756

00:44:05,000 --> 00:44:08,000

Now, slowly away from the entire pond.

757

00:44:08,000 --> 00:44:09,000

Ha ha ha ha!

758

00:44:09,000 --> 00:44:12,000

It's like a schoolyard food fight.

759

00:44:12,000 --> 00:44:15,000

Once it starts, there's no stopping.

760

00:44:15,000 --> 00:44:18,000

Oh, I just got a beautiful hit, Jamie.

761

00:44:18,000 --> 00:44:21,000

Get a terrific hit on the control.

762

00:44:21,000 --> 00:44:22,000

Over.

763

00:44:22,000 --> 00:44:27,000

Okay, Adam, I think it's time to swap the control bait box with the magnetic one.

764

00:44:27,000 --> 00:44:28,000

That's perfect, Jamie.

765

00:44:28,000 --> 00:44:30,000

Let's see how they did with the magnet.

766

00:44:30,000 --> 00:44:31,000

Over.

767

00:44:31,000 --> 00:44:32,000

Okay, so we've done the control.

768

00:44:32,000 --> 00:44:38,000

The sharks had no problem at all attacking the regular unmodified bait box.

769

00:44:38,000 --> 00:44:43,000

Now it's time to swap it out with the magnetic one and see if they behave any differently.

770

00:44:43,000 --> 00:44:49,000

If there's anything to this myth, we should clearly see the sharks being repelled by the magnet.

771

00:44:49,000 --> 00:44:56,000

Unlike the control, this bait box is literally bristling with neodymium or rare earth magnets.

772

00:44:57,000 --> 00:45:04,000

Stronger than the ceramic magnets used on the shark pups, the magnetic field is wider and more powerful.

773

00:45:04,000 --> 00:45:09,000

But will it prevent the sharks from chewing on the exposed chum?

774

00:45:09,000 --> 00:45:13,000

Oh, that's a fine, oh yeah, he's chopping at the bait on the box.

775

00:45:13,000 --> 00:45:19,000

Clearly, right from the moment Luke laid out lunch, there was only one thing on the shark's mind.

776

00:45:19,000 --> 00:45:21,000

Oh, we got another one.

777

00:45:21,000 --> 00:45:22,000

And it wasn't the magnets.

778

00:45:22,000 --> 00:45:32,000

Okay, we've got a CWM which is about five big lemon sharks around it, and they're all kind of taking stabs with their nose and they're all kind of taking nibbles.

779

00:45:32,000 --> 00:45:35,000

And Matt doesn't seem to notice the magnets at all.

780

00:45:36,000 --> 00:45:38,000

This is so cool.

781

00:45:40,000 --> 00:45:42,000

That was a totally unexpected result.

782

00:45:42,000 --> 00:45:50,000

Everything we've seen up to this point is telling us that sharks are reactive to magnetic fields, and we got nothing.

783

00:45:50,000 --> 00:45:55,000

Just to see if I can get the sharks more excited, I'm going to come in serenading in my wetsuit, okay?

784

00:45:55,000 --> 00:45:57,000

Whatever floats your goat, over.

785

00:45:57,000 --> 00:45:59,000

Ah, that feels good.

786

00:46:00,000 --> 00:46:05,000

Relieved that they've got such a clear cut result, Adam heads for the surface.

787

00:46:05,000 --> 00:46:11,000

Personally, I think that the sharks may be sensing the magnets, but they don't care.

788

00:46:11,000 --> 00:46:13,000

They know there's fish in the air.

789

00:46:13,000 --> 00:46:15,000

Dude, that was totally unexpected.

790

00:46:15,000 --> 00:46:20,000

They're going into this feeding frenzy sort of thing, and they're going to go for the fish.

791

00:46:20,000 --> 00:46:21,000

That's it.

792

00:46:21,000 --> 00:46:28,000

Clearly, there's a difference between a single nervous shark popping a pen at a shiver of adult sharks in the wild.

793

00:46:30,000 --> 00:46:38,000

These lemon sharks and their ampulae of Lorenzini just didn't care about the magnetic field surrounding the bait box.

794

00:46:41,000 --> 00:46:43,000

Magnets. How are we going to call this one?

795

00:46:43,000 --> 00:46:54,000

Well, it's a funny one because I thought it was going to be totally confirmed when our small-scale test on Bimini showed the nurse sharks being clearly repelled by the line of ceramic magnets.

796

00:46:54,000 --> 00:46:59,000

Yeah, but the full-sized lemon sharks, when they're hungry, not so much.

797

00:46:59,000 --> 00:47:05,000

Yeah, if something's going to be a shark repellent, it's got to work across a bunch of species, and we haven't seen that.

798

00:47:05,000 --> 00:47:07,000

I think we've got to call this one Busted.

799

00:47:07,000 --> 00:47:08,000

Busted.

800

00:47:24,000 --> 00:47:29,000

It's time to turn down the lights and turn up the fear factor to 11.

801

00:47:34,000 --> 00:47:38,000

The next myth is straight off the fan site, and this one is illuminating.

802

00:47:38,000 --> 00:47:40,000

What is it?

803

00:47:40,000 --> 00:47:42,000

Sharks are attracted to flashlights.

804

00:47:42,000 --> 00:47:43,000

What?

805

00:47:43,000 --> 00:47:52,000

Yeah, I know. It sounds bizarre, but according to some scuba diving fans, when you're diving at night, your underwater flashlight can actually attract sharks.

806

00:47:52,000 --> 00:47:56,000

Night dives with sharks. This is going to be scary.

807

00:47:58,000 --> 00:48:06,000

If you want to see where you're going on a night dive, a flashlight is a scuba diver's best friend, unless it attracts sharks.

808

00:48:08,000 --> 00:48:14,000

The theory suggests that sharks can mistake the electromagnetic field of the flashlight for fish food.

809

00:48:15,000 --> 00:48:22,000

Coupled with the fact that most sharks hunt at night, and all sharks are intensely curious, you've got yourself a myth.

810

00:48:24,000 --> 00:48:25,000

So sharks hunt at night.

811

00:48:25,000 --> 00:48:26,000

Yep.

812

00:48:26,000 --> 00:48:27,000

And we have to do this.

813

00:48:27,000 --> 00:48:28,000

Yep.

814

00:48:28,000 --> 00:48:29,000

Alright, so what's the plan?

815

00:48:29,000 --> 00:48:31,000

Well, I figure we do two dives.

816

00:48:31,000 --> 00:48:35,000

First dive, we go down at night without flashlights, count how many sharks show up.

817

00:48:35,000 --> 00:48:43,000

Then 24 hours later, at the exact same dive site, at the exact same time, we go down there with flashlights and see if more sharks appear.

818

00:48:43,000 --> 00:48:46,000

Okay, but how are we and the viewers going to be able to see anything?

819

00:48:46,000 --> 00:48:50,000

Well, why don't we use some really low-level lights, that way the cameras can pick something up?

820

00:48:50,000 --> 00:48:54,000

But as far as we're concerned and the sharks are concerned, it's still pretty much dark.

821

00:48:54,000 --> 00:48:55,000

Perfect.

822

00:48:55,000 --> 00:49:01,000

Alright, just want to go on record saying I think this is a really, really, really bad idea.

823

00:49:01,000 --> 00:49:02,000

Really?

824

00:49:02,000 --> 00:49:03,000

Really.

825

00:49:04,000 --> 00:49:07,000

The dive site in question is an old sunken wreck.

826

00:49:07,000 --> 00:49:14,000

And thanks to some subtle lighting, we'll be able to see Kari, Tori and Grant as they count sharks.

827

00:49:14,000 --> 00:49:17,000

With and without flashlights.

828

00:49:17,000 --> 00:49:22,000

And it's safe to say no one is looking forward to this test.

829

00:49:22,000 --> 00:49:23,000

Let's review.

830

00:49:23,000 --> 00:49:25,000

I don't really like the water.

831

00:49:25,000 --> 00:49:27,000

I don't like fish touching me.

832

00:49:27,000 --> 00:49:31,000

And apparently now, I don't like any of this happening in the dark.

833

00:49:31,000 --> 00:49:34,000

Not really looking forward to this.

834

00:49:35,000 --> 00:49:41,000

Normally when danger calls, it's Tori who answers.

835

00:49:44,000 --> 00:49:51,000

But now in near darkness, the Mythbusters man of steel is having unsupermanlike thoughts.

836

00:49:51,000 --> 00:49:53,000

Oh, f\*\*\*.

837

00:49:53,000 --> 00:49:56,000

That was a shark attacking the buoy, okay?

838

00:49:56,000 --> 00:49:57,000

And we want to go in this water.

839

00:49:57,000 --> 00:49:59,000

Is this a good idea?

840

00:49:59,000 --> 00:50:01,000

The buoy didn't do anything.

841

00:50:01,000 --> 00:50:03,000

What is it going to do to us?

842

00:50:03,000 --> 00:50:05,000

Was that cool? Do they usually attack buoys?

843

00:50:05,000 --> 00:50:10,000

While Tori tries to control his heart rate, the team get ready for the control.

844

00:50:10,000 --> 00:50:12,000

The no-flashlight test.

845

00:50:12,000 --> 00:50:13,000

Okay guys, good luck.

846

00:50:13,000 --> 00:50:15,000

See you back on the surface.

847

00:50:15,000 --> 00:50:16,000

Try not to get eaten.

848

00:50:16,000 --> 00:50:17,000

Happy counting.

849

00:50:27,000 --> 00:50:28,000

Oh my god.

850

00:50:28,000 --> 00:50:30,000

This is scary.

851

00:50:30,000 --> 00:50:34,000

I know that there are sharks around, but I just can't see anything.

852

00:50:34,000 --> 00:50:37,000

I'm not liking this.

853

00:50:38,000 --> 00:50:44,000

Trying not to get eaten before the test starts, the guys carefully make their way to the wreck.

854

00:50:45,000 --> 00:50:52,000

So that viewers can see, our camera team has carefully lit this wreck to simulate moonlight.

855

00:50:52,000 --> 00:50:57,000

It's a very low level that's boosted by the cameras.

856

00:50:57,000 --> 00:51:03,000

And this lighting will be exactly the same for the control and the flashlight test.

857

00:51:05,000 --> 00:51:08,000

Is everyone in position? Over.

858

00:51:08,000 --> 00:51:10,000

I'm in position.

859

00:51:10,000 --> 00:51:13,000

It's a little scary down here.

860

00:51:16,000 --> 00:51:19,000

This is Grant. I'm in position. Over.

861

00:51:19,000 --> 00:51:24,000

Okay, 20 minutes. Start counting your sharks now.

862

00:51:25,000 --> 00:51:32,000

Remember, no bait has been added to the water for this baseline test, and neither will it be for test two.

863

00:51:33,000 --> 00:51:35,000

Oh, we got a sea turtle.

864

00:51:36,000 --> 00:51:43,000

It's a slow start, but as their eyes get accustomed to the dark, they realize that they're not alone.

865

00:51:43,000 --> 00:51:47,000

I got one shark. One shark. Over.

866

00:51:47,000 --> 00:51:52,000

Shark one arrives to terrorize Grant, but Tori's gone two better.

867

00:51:53,000 --> 00:52:00,000

Oh, Grant. I got three sharks surrounding me right now. This is a little scary.

868

00:52:01,000 --> 00:52:07,000

Meanwhile, on the poop deck, Carrie, petrified as she is, remains shark-free.

869

00:52:08,000 --> 00:52:14,000

Hey guys, we still have ten minutes to go. This is going to be the creepiest thing I've ever done, and I still haven't seen any sharks.

870

00:52:15,000 --> 00:52:21,000

Not seeing sharks in the dark may be scary, but seeing them is far, far worse.

871

00:52:21,000 --> 00:52:28,000

I got one on my left. One on my left. Whoa, there's a water poop. Holy crap.

872

00:52:29,000 --> 00:52:38,000

Whoa. We can do this right up to our stages. Over.

873

00:52:38,000 --> 00:52:46,000

I just want to say to whatever fans pushing us on the fans side, I hate you. I hate you. I hate you.

874

00:52:46,000 --> 00:52:56,000

It's something about not knowing where the danger lurks as the sharks mysteriously appear out of the gloom, cruise by, and then sonnantly disappear.

875

00:52:57,000 --> 00:53:02,000

I really, really like to get out now because these sharks are pulling me off.

876

00:53:03,000 --> 00:53:10,000

Luckily, before Tori gets toothed, he gets his wish. The twenty minutes are up and our trepid trio get out in a hurry.

877

00:53:11,000 --> 00:53:17,000

Oh my god, that was freaking nuts. It was so dark you can hardly see anything.

878

00:53:18,000 --> 00:53:21,000

Every once in a while you'd see a shark come into the light and then they'd go back out.

879

00:53:22,000 --> 00:53:26,000

The worst part is that you know they're out there but you can't see them. But then all of a sudden three or four started circling me.

880

00:53:27,000 --> 00:53:35,000

Then for some reason they started poking their heads in at us and they were just like, at one point the camera guy had to knock a shark away.

881

00:53:35,000 --> 00:53:37,000

That was terrifying.

882

00:53:38,000 --> 00:53:47,000

Terrifying but still tallyed up. With no flashlights there were four sharks around Tori, two around Grant, and all Carrie Gott was a turtle.

883

00:53:48,000 --> 00:53:51,000

I'm scared to do this again tomorrow but I'm also really, really excited.

884

00:53:51,000 --> 00:54:09,000

What's efficient? King of his domain and over four hundred million years old. No, not Jamie. It is of course sharks.

885

00:54:10,000 --> 00:54:20,000

From nine inches to thirty-nine feet this ancient fish with the cartilaginous skeleton has conquered all of the world's oceans.

886

00:54:21,000 --> 00:54:28,000

It's been closely studied, revered, and at a reflection of our own instincts, feared.

887

00:54:29,000 --> 00:54:34,000

And it's that fear that drives the thriving shark protection and repellent industry.

888

00:54:34,000 --> 00:54:43,000

But Adam thinks he's seen an opening. He's got his own version of shark armor he wants to test.

889

00:54:44,000 --> 00:54:47,000

I am ready.

890

00:54:48,000 --> 00:54:53,000

Move over night rider. Here comes the night diver.

891

00:54:57,000 --> 00:55:00,000

I swear I think I just saw that shark's snatching his lips.

892

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

Copy that.

893

00:55:03,000 --> 00:55:10,000

On the show we have a lot of what the f\*\*\* are we doing moments but this has to rank easily in the

top three of those.

894

00:55:11,000 --> 00:55:17,000

As shark protection goes though it worked. I felt safe as houses and you never know. Maybe it'll catch on.

895

00:55:18,000 --> 00:55:23,000

Meanwhile back in the 21st century things are about to get hot and spicy.

896

00:55:23,000 --> 00:55:30,000

Since we're dealing with shark repellents I remember reading about these Indians that were using chilies as shark repellents.

897

00:55:31,000 --> 00:55:42,000

Chilies? That's great. Look why don't we talk to the cook in our kitchen and find out if they've got some hot chilies and see if we can actually test this.

898

00:55:42,000 --> 00:55:51,000

Yep in order to protect themselves and their boats the Kuna Indians used a shark shield of the hottest habaneros they could find.

899

00:55:52,000 --> 00:55:58,000

But did their path of pepper really keep the sharks away or did it merely add a little bite to the bite?

900

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

Here you go Adam. Habanero chilies all bag full of them. They have about 100,000 to 350,000 Scoville units.

901

00:56:08,000 --> 00:56:11,000

Which means they're really really hot. Alright.

902

00:56:12,000 --> 00:56:19,000

Now if you've been paying attention up at the back there you'll remember that Carrie, Grant and Tori have already covered the Scoville scale.

903

00:56:20,000 --> 00:56:22,000

Go ahead make my chili.

904

00:56:23,000 --> 00:56:27,000

The bigger the number the more of the active ingredient capsaicin is in the chili.

905

00:56:27,000 --> 00:56:39,000

Used in pepper sprays its potency is the basis for this myth. If it has the same effect on a shark's taste buds as ours then the myth would be confirmed.

906

00:56:40,000 --> 00:56:48,000

And at around 300,000 on the Scoville scale these puppies are way too hot to handle without extreme care.

907

00:56:49,000 --> 00:56:50,000

What's going to be hotter than chili juice?

908

00:56:51,000 --> 00:56:55,000

But after a dare from the crew Jamie can't resist a taste.

909

00:56:58,000 --> 00:57:15,000

That was just a drop. It was slowly going everywhere inside my mouth just burning like a fire. Love it.

910

00:57:16,000 --> 00:57:19,000

While Jamie blows off some steams.

911

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

I need some guacamole.

912

00:57:21,000 --> 00:57:26,000

Monsieur Sauvage finishes prepping his pepper dish. Now to plate him up.

913

00:57:27,000 --> 00:57:36,000

My sister Jamie will help me squeeze them into the balloons and this is how we will serve the pepper orders to the sharks.

914

00:57:37,000 --> 00:57:43,000

Rest assured these balloons are biodegradable and were carefully selected to avoid harming the sharks.

915

00:57:44,000 --> 00:57:46,000

And they're not dissolving from the heat yet?

916

00:57:47,000 --> 00:57:48,000

No.

917

00:57:48,000 --> 00:57:50,000

Both of them out the guys carefully add some water.

918

00:57:51,000 --> 00:57:54,000

We brought chemical warfare to the water balloon man.

919

00:57:55,000 --> 00:58:02,000

Alright well our hot tamale balloons are ready and the methodology we're going to use to introduce them to the sharks actually exploits behavior we've already seen of the sharks around the bait box.

920

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

Which is that they curiously swim by them a lot. Especially if we have to when we shake them up and get the water dense with fish material.

921

00:58:10,000 --> 00:58:19,000

We're going to have one of these on top of the bait box and as a shark swims by we're going to pop the balloon so he swims through the cloud of chili infused water.

922

00:58:20,000 --> 00:58:26,000

And to burst the weapons of taste bud destruction Adam adds an ironically powered needle to the bait box.

923

00:58:28,000 --> 00:58:32,000

That's just dindrous fun. I like it.

924

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

Perfect.

925

00:58:34,000 --> 00:58:40,000

If I had to hazard a guess as to whether or not the sharks would be repelled by the chilies I think that they would find it in irritant.

926

00:58:41,000 --> 00:58:47,000

I mean the capsaicin in those habaneros is so strong that I got a little bit of it on my arm and it actually burned me.

927

00:58:48,000 --> 00:58:50,000

And it's the same stuff they use in pepper spray.

928

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

I can only imagine that a shark with all of its sensitive instrumentation on his snout swimming through a cloud of that would find it unpleasant.

929

00:58:58,000 --> 00:59:04,000

First up on the menu is the all important control. A balloon with no chili just water.

930

00:59:05,000 --> 00:59:12,000

For this myth to be true we should see a clear difference between the control balloon and the balloon full of chili.

931

00:59:13,000 --> 00:59:17,000

The sharks should physically demonstrate a real aversion to the chili.

932

00:59:18,000 --> 00:59:21,000

I'm going to pop this as soon as the sharks are close enough.

933

00:59:21,000 --> 00:59:28,000

I totally fit the balloon. The shark just ate the balloon.

934

00:59:29,000 --> 00:59:31,000

A shark just ate the control balloon?

935

00:59:32,000 --> 00:59:36,000

It sounds like they're not at all afraid of the balloon which is the purpose of the control.

936

00:59:37,000 --> 00:59:40,000

You're right. Let's move on to the chilies.

937

00:59:41,000 --> 00:59:48,000

Safety diver Luke once again does the honors. This time attaching one of the chili balloons to the bait box.

938

00:59:48,000 --> 00:59:55,000

Oh he's bitten the chili bag. Other sharks are coming in to check out what's going on.

939

00:59:56,000 --> 01:00:00,000

And the third one. The first one came back for another bite of the bag.

940

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

Clearly the sharks don't seem too hot and bothered by hot spices.

941

01:00:07,000 --> 01:00:11,000

But to make sure Adam and Luke line up a second water filled control.

942

01:00:13,000 --> 01:00:17,000

Here comes another vat of points biting on the balloon. He's bitten the balloon.

943

01:00:18,000 --> 01:00:21,000

Indigestion inducing chili concoction.

944

01:00:23,000 --> 01:00:28,000

He's bitten the chili balloon. Now the sharks are swimming through the chili debris.

945

01:00:30,000 --> 01:00:33,000

Are the sharks twitching or gnashing their teeth?

946

01:00:34,000 --> 01:00:37,000

They don't really show any obvious potential.

947

01:00:38,000 --> 01:00:41,000

Yep there's just no observable difference between the control.

948

01:00:42,000 --> 01:00:44,000

Can I mention that this is really fun.

949

01:00:44,000 --> 01:00:49,000

And the chili. And several more repeat sets reinforce that conclusion.

950

01:00:50,000 --> 01:00:55,000

One of those balloons is probably enough to kill one of us. They don't seem to mind at all.

951

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

Couple that. After eight balloons the sharks show no reticence to bite the balloons.

952

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

Whether full of water or chili.

953

01:01:05,000 --> 01:01:08,000

Are the little fish around there eating all the bits of chili?

954

01:01:09,000 --> 01:01:12,000

Affirmative. I think we should catch some of the little fish.

955

01:01:12,000 --> 01:01:14,000

They'll be pre-marinated.

956

01:01:17,000 --> 01:01:22,000

Obviously capsaicin doesn't affect the local fish. Little or large.

957

01:01:23,000 --> 01:01:29,000

And it's all down to evolution. The theory being chilies evolved their spice to deter herbivorous mammals.

958

01:01:30,000 --> 01:01:34,000

Birds are not affected by the spice and neither it seems are sharks.

959

01:01:35,000 --> 01:01:37,000

And with all of Adam's chili bubbles burst.

960

01:01:38,000 --> 01:01:39,000

How much fun was that?

961

01:01:39,000 --> 01:01:41,000

He surfaces for the debriefing.

962

01:01:42,000 --> 01:01:43,000

So what do you think?

963

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

I think in the end what we got was pretty scientific.

964

01:01:48,000 --> 01:01:55,000

There was really no difference overall between the reaction to the chili balloons and the reaction to the control balloons. Wouldn't you say?

965

01:01:56,000 --> 01:02:01,000

Yeah not much at all. You know with the number of tests that we ran and watching them have the same reaction every single time.

966

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

I don't think that we could significantly say that they are deterred by chilies whatsoever.

967

01:02:06,000 --> 01:02:11,000

So I'd say chili as a shark deterrent. Busted. Busted. Busted.

968

01:02:19,000 --> 01:02:25,000

In the Bahamas the team has a new furry friend. Robo-dog. He's not toilet trained.

969

01:02:27,000 --> 01:02:28,000

Oh Robo-dog!

970

01:02:29,000 --> 01:02:34,000

He's embarrassingly bad at Frisbee but he's perfect to test the shaggy dog story.

971

01:02:34,000 --> 01:02:36,000

I didn't train him to do that.

972

01:02:37,000 --> 01:02:43,000

That sharks find canine cuisine irresistible. And that's because Robo-dog has the smell.

973

01:02:44,000 --> 01:02:46,000

Oh my god that smells so bad.

974

01:02:47,000 --> 01:02:49,000

Look and swimming action of a real dog.

975

01:02:51,000 --> 01:02:56,000

How great is this? We're in the Bahamas. It's beautiful and we're about to test whether or not a dog will attract sharks.

976

01:02:56,000 --> 01:03:03,000

Now that might sound like a cruel experiment but luckily Kerry and Grant have made a realistic looking smelling and acting dog.

977

01:03:04,000 --> 01:03:07,000

So we'll be able to test this without putting any dogs in harm's way.

978

01:03:08,000 --> 01:03:15,000

That's right. Despite his shaggy dog exterior old Sharkbait here is actually the most elaborate robot the team has ever built.

979

01:03:16,000 --> 01:03:17,000

And he needs to be.

980

01:03:19,000 --> 01:03:25,000

Shark Senses thanks to 400 million years of evolution are home to the max.

981

01:03:26,000 --> 01:03:32,000

But Robo-dog's got this covered with his realistic smell, bark and air powered movement.

982

01:03:33,000 --> 01:03:35,000

He's the ultimate robot in disguise.

983

01:03:38,000 --> 01:03:42,000

So we're going to start our whole dogs attracting sharks experiment with control.

984

01:03:43,000 --> 01:03:47,000

And the idea is simply count how many sharks naturally show up in this area.

985

01:03:48,000 --> 01:03:55,000

That way we'll have a baseline number that we can compare to later when we actually put the thrashing dog out into the water.

986

01:03:56,000 --> 01:04:00,000

If more sharks show up when we have the dog in the water then there is some truth to this myth.

987

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

For this control Tori will be underwater counting sharks.

988

01:04:05,000 --> 01:04:10,000

At up top Kerry will verify the count plus keep an eye on the test time of 20 minutes.

989

01:04:14,000 --> 01:04:17,000

Okay let's begin the experiment. Start counting now.

990

01:04:18,000 --> 01:04:25,000

Wow this is incredible. Even with no chub, nothing in the water. There's already 10 sharks just hanging around here.

991

01:04:26,000 --> 01:04:28,000

I hope it's not me they're attracted to.

992

01:04:29,000 --> 01:04:32,000

Rest assured Tori it's not you, it's the mothership.

993

01:04:33,000 --> 01:04:37,000

In this area in the Bahamas there are a lot of dive boats that come to check out the sharks.

994

01:04:38,000 --> 01:04:40,000

So the sharks are conditioned to know if a boat shows up they might get fed.

995

01:04:41,000 --> 01:04:46,000

So this was a really important test to take a baseline and find out how many sharks are just going to show up from the presence of a boat.

996

01:04:47,000 --> 01:04:53,000

And that magic number is 15. 15 sharks that luckily don't seem to like Italian food.

997

01:04:53,000 --> 01:04:56,000

Everyone did a while they come and check me out just to see if I'm edible.

998

01:04:57,000 --> 01:05:04,000

Next step is to come back tomorrow to this exact same location and be ready to go with the dog immediately when we get here.

999

01:05:05,000 --> 01:05:13,000

And then we'll see if more sharks arrive once we release all our dog fluids whether they get more aggressive and go after them.

1000

01:05:15,000 --> 01:05:20,000

And tomorrow comes all too soon for RoboDog who's about to get ripe.

1001

01:05:20,000 --> 01:05:25,000

There's one final funky preparation I have for RoboDog.

1002

01:05:26,000 --> 01:05:28,000

I have got to fill his syringes with his smells.

1003

01:05:29,000 --> 01:05:31,000

Urine, blood and anal secretion.

1004

01:05:32,000 --> 01:05:34,000

Maybe a little flavor in the water is going to attract the sharks.

1005

01:05:35,000 --> 01:05:37,000

It looks just like chocolate syrup.

1006

01:05:38,000 --> 01:05:43,000

Grant's done the team proud with this bill but with the test looming he's having second thoughts.

1007

01:05:44,000 --> 01:05:57,000

You know we've put a lot of effort and love and personal spirit into RoboDog and getting to this point I don't really want to see RoboDog get chomped on by a shark.

1008

01:05:58,000 --> 01:06:03,000

But you know you just have to let go and let him do what he was designed to do.

1009

01:06:04,000 --> 01:06:11,000

Back at the same location as yesterday the only difference from the control test will be the dog.

1010

01:06:12,000 --> 01:06:16,000

And Tori will brave the water to see what difference that difference makes.

1011

01:06:18,000 --> 01:06:20,000

When we did the control I counted 15 sharks.

1012

01:06:21,000 --> 01:06:26,000

Now in order to confirm the Smith we're going to have to see a lot more sharks and they're going to have to be interested in the dog.

1013

01:06:27,000 --> 01:06:32,000

Whether or not they're going to attack the dog I don't know but they're going to have to go up to it check it out and then we'll be able to tell whether or not this is going to work.

1014

01:06:33,000 --> 01:06:37,000

Following Tori into the shark infested waters is RoboDog.

1015

01:06:38,000 --> 01:06:44,000

And from his first excited doggy paddles it's clear he's doing exactly what he was designed to do.

1016

01:06:45,000 --> 01:06:53,000

RoboDog looks great. He's totally swimming like a real dog. From here it looks like the real deal. I can even hear him barking too.

1017

01:06:54,000 --> 01:06:58,000

With the 20 minute test underway Tori starts counting sharks.

1018

01:06:58,000 --> 01:07:06,000

Okay guys five minutes of gun by and RoboDog is being ignored. There are a few sharks swimming around but no more than the control.

1019

01:07:07,000 --> 01:07:15,000

Yep the visual cue of the dog's shape and the audible cue of the erratic paddling action don't warrant any investigations.

1020

01:07:16,000 --> 01:07:20,000

Which means to a shark dogs don't look or sound like dinner.

1021

01:07:21,000 --> 01:07:28,000

So it's time to let loose the juice. First into the water are the urine and anal secretions.

1022

01:07:29,000 --> 01:07:32,000

Okay Tori stand by we're going to release the urine and anal secretion.

1023

01:07:33,000 --> 01:07:34,000

Come on sharks.

1024

01:07:35,000 --> 01:07:43,000

By adding scent to the vision and sound RoboDog is now the complete package but he's still enjoying his swim unmolested by the sharks below.

1025

01:07:44,000 --> 01:07:52,000

I've seen ten sharks so far and there's no significant change in behavior. Definitely no close encounters or investigations of RoboDog.

1026

01:07:53,000 --> 01:07:57,000

No no no RoboDog you can't get back on the boat. I don't care how many sharks are down there.

1027

01:07:58,000 --> 01:08:02,000

Which leads the final potential scent cue. Blood.

1028

01:08:03,000 --> 01:08:10,000

Okay there are two ways that a dog can release blood. First obviously it can be bleeding. But second if it had fleas it could have flea dirt.

1029

01:08:10,000 --> 01:08:15,000

Which basically is a remnant of blood. So blood in the water with a dog is a very real possibility.

1030

01:08:16,000 --> 01:08:23,000

And it's this trace of blood similar to the amount a flea bitten dog would be carrying that causes a stir.

1031

01:08:24,000 --> 01:08:26,000

See a shark coming towards the surface.

1032

01:08:27,000 --> 01:08:32,000

There's two sharks. Three sharks they're starting to come to the surface.

1033

01:08:33,000 --> 01:08:42,000

After the blood went into the water another five sharks appeared pretty quickly. But the count is still only reached 15. The same is the control.

1034

01:08:43,000 --> 01:08:48,000

Before Tori can add any of his own anal secretions the twenty minutes are up.

1035

01:08:49,000 --> 01:08:52,000

Wow that was nuts. How many sharks did you see?

1036

01:08:53,000 --> 01:08:57,000

There was 15 sharks so this is exactly like our control test. So their behavior didn't change.

1037

01:08:57,000 --> 01:08:59,000

They didn't even like go up to the dog. They just ignored it.

1038

01:09:00,000 --> 01:09:04,000

Well obviously we couldn't have put a real dog in the water. So I think this is the best possible experiment we could do.

1039

01:09:05,000 --> 01:09:10,000

Robo dog looks like a dog, swims like a dog, smells like a dog. From this I think we can call it.

1040

01:09:11,000 --> 01:09:12,000

Yeah man I think we'd have to call that busted.

1041

01:09:13,000 --> 01:09:17,000

Alright this one's busted. Who's a good boy? Who's a good boy? Who's a good boy?

1042

01:09:28,000 --> 01:09:33,000

So any flight of fancy you want to indulge this shark week?

1043

01:09:34,000 --> 01:09:36,000

I want to test flapping fish whether they attract sharks.

1044

01:09:37,000 --> 01:09:42,000

Yeah but we did that in South Africa. We played the 40 hertz yummy hum and no sharks came around. We're done with that one.

1045

01:09:43,000 --> 01:09:50,000

Yeah well I know but you know it was too complicated. There were computers and speakers and I didn't see any flapping fish in that test.

1046

01:09:51,000 --> 01:09:55,000

So that's what I want to do. I want to try something like a flapping fish and see whether it attracts sharks.

1047

01:09:55,000 --> 01:09:58,000

An actual fish that flaps. Back to basics. I love it.

1048

01:09:59,000 --> 01:10:05,000

Sharks are attuned with all six of their senses to anything that may be a potential dining experience.

1049

01:10:06,000 --> 01:10:12,000

But some scientists reckon it's their vibration detecting lateral lines that are the most crucial.

1050

01:10:13,000 --> 01:10:18,000

They can supposedly detect the precise whereabouts of an injured flapping fish.

1051

01:10:18,000 --> 01:10:23,000

In a previous episode the guys tested this by playing the yummy hum.

1052

01:10:24,000 --> 01:10:29,000

A 40 hertz tone that's apparently the exact frequency made by a flapping fish.

1053

01:10:30,000 --> 01:10:35,000

We played the sounds. Sharks didn't come and we know they hurt them.

1054

01:10:36,000 --> 01:10:44,000

But by going high tech the experiment failed to satisfy Adam, Jamie and according to your emails you.

1055

01:10:45,000 --> 01:10:51,000

So back in the Caribbean it's take two. But this time the guys are using the real thing.

1056

01:10:52,000 --> 01:11:00,000

Jamie's going to rot in a little boat and drop two fish into the water on poles. One will remain stationary and the other one he's going to make flat like it's injured.

1057

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

I'm going to watch below and see if the sharks prefer one over the other.

1058

01:11:05,000 --> 01:11:13,000

I'm about to do my very first dive out of the cage and in order to do so I'm wearing 18 pounds of fine stainless steel.

1059

01:11:14,000 --> 01:11:16,000

Mesh chainmail made by a company called Neptune.

1060

01:11:18,000 --> 01:11:23,000

And while it doesn't make me shark proof it definitely makes me shark resistant.

1061

01:11:24,000 --> 01:11:30,000

Adam may be suitably suited wielding a shark shield and surrounded by experienced safety divers.

1062

01:11:32,000 --> 01:11:33,000

It's giving me the eye.

1063

01:11:34,000 --> 01:11:37,000

But he's seen the movie Jaws 57 times.

1064

01:11:38,000 --> 01:11:41,000

Jamie I don't mind telling you I'm a little freaked out.

1065

01:11:41,000 --> 01:11:42,000

Twice last night.

1066

01:11:43,000 --> 01:11:44,000

Okay here we go.

1067

01:11:45,000 --> 01:11:46,000

Ready for the flapping fish test.

1068

01:11:47,000 --> 01:11:50,000

Alright Jamie's making one flap. It looks pretty good.

1069

01:11:51,000 --> 01:11:53,000

It's definitely a flapping fish.

1070

01:11:54,000 --> 01:12:02,000

And if the myth is true the sharks attuned to the sound and vibration of an injured fish will go for the flapper first time every time.

1071

01:12:03,000 --> 01:12:04,000

There they come.

1072

01:12:05,000 --> 01:12:07,000

It's definitely a party under the flapping fish boat.

1073

01:12:07,000 --> 01:12:14,000

Yep it took a few minutes but the local lemon sharks who work out there is such a thing as a free lunch take the bait.

1074

01:12:15,000 --> 01:12:17,000

It's fit for the not flapping fish.

1075

01:12:18,000 --> 01:12:19,000

And the whole rig.

1076

01:12:20,000 --> 01:12:21,000

Oh no he's taking the whole rig away.

1077

01:12:22,000 --> 01:12:24,000

Your whole rig is going away with that shark.

1078

01:12:25,000 --> 01:12:32,000

So given the choice the first lunch customer snacked on the dead fish and ignored the apparently injured flapping fish.

1079

01:12:32,000 --> 01:12:37,000

But this is science and one sample a result does not make.

1080

01:12:38,000 --> 01:12:39,000

Which one you want?

1081

01:12:40,000 --> 01:12:41,000

Here comes another bad boy.

1082

01:12:42,000 --> 01:12:43,000

He's gone for the flapping fish.

1083

01:12:45,000 --> 01:12:48,000

But I want to know is why do they keep swimming near me?

1084

01:12:49,000 --> 01:12:51,000

There's a hint on the not flapping fish.

1085

01:12:52,000 --> 01:12:53,000

Come on.

1086

01:12:54,000 --> 01:12:55,000

He's got it.

1087

01:12:56,000 --> 01:12:57,000

After Jamie runs out of fish.

1088

01:12:58,000 --> 01:12:59,000

Oh there's a hint.

1089

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

There it goes.

1090

01:13:03,000 --> 01:13:04,000

That's another one for the shaker.

1091

01:13:05,000 --> 01:13:06,000

And Adam runs out of air.

1092

01:13:07,000 --> 01:13:08,000

They decide to call it a day.

1093

01:13:09,000 --> 01:13:10,000

That was awesome.

1094

01:13:11,000 --> 01:13:14,000

At six to three the final score favors the flapping fish.

1095

01:13:15,000 --> 01:13:17,000

But it's not the nine zero they were hoping for.

1096

01:13:18,000 --> 01:13:21,000

And Jamie thinks something fishy is going on.

1097

01:13:22,000 --> 01:13:24,000

It seems like they're responding more to the flapping fish.

1098

01:13:25,000 --> 01:13:28,000

But is the flapping really what they're responding to?

1099

01:13:28,000 --> 01:13:33,000

With the flapping and stationary fish leaking fish blood the sharks noses would have been

1100

01:13:34,000 --> 01:13:36,000

switching as soon as they hit the water.

1101

01:13:37,000 --> 01:13:39,000

And of course both fish were in plain view.

1102

01:13:40,000 --> 01:13:42,000

He's bitten the non-flapping fish.

1103

01:13:43,000 --> 01:13:48,000

With those additional variables it's impossible to tell what the sharks were responding to.

1104

01:13:50,000 --> 01:13:51,000

Come on.

1105

01:13:52,000 --> 01:13:57,000

I feel like our test is flawed because we don't know that it was only the flapping they were attracted to.

1106

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

And it's not going to go to sea and smell that it was a fish.

1107

01:14:02,000 --> 01:14:03,000

Well let's remove those two variables.

1108

01:14:04,000 --> 01:14:08,000

We'll use a screen so they can't see it and we won't use a real fish.

1109

01:14:09,000 --> 01:14:10,000

Perfect.

1110

01:14:28,000 --> 01:14:30,000

We're back with the most petrifying pastimes of all.

1111

01:14:32,000 --> 01:14:35,000

If anybody finds this tape tell them I'm sorry.

1112

01:14:36,000 --> 01:14:39,000

I'm so scared of the sharks.

1113

01:14:40,000 --> 01:14:44,000

And now it's time to shed some light on a piece of flashlight folklore.

1114

01:14:45,000 --> 01:14:49,000

For this myth to be confirmed that sharks are attracted to flashlights.

1115

01:14:50,000 --> 01:14:53,000

I'm going to see a much more significant number of sharks and I want to see a different behavior pattern.

1116

01:14:54,000 --> 01:14:57,000

I want to see that the sharks are getting more aggressive when they see the flashlights.

1117

01:14:58,000 --> 01:14:59,000

So change that.

1118

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

I don't want to actually see them get more aggressive.

1119

01:15:02,000 --> 01:15:03,000

That's just what it has to be if the myth was confirmed.

1120

01:15:04,000 --> 01:15:07,000

Remember the dive without flashlights yielded six sharks.

1121

01:15:08,000 --> 01:15:10,000

So if the myth is true that's the number to beat.

1122

01:15:18,000 --> 01:15:21,000

On the way down to the wreck Carrie once again makes the first sighting.

1123

01:15:23,000 --> 01:15:24,000

Another turtle.

1124

01:15:25,000 --> 01:15:27,000

I like seeing turtles so much more than sharks.

1125

01:15:28,000 --> 01:15:32,000

The flashlights on the guys creep into their eerie moonlit positions.

1126

01:15:33,000 --> 01:15:35,000

And then it's a go on the 20 minute timer.

1127

01:15:36,000 --> 01:15:38,000

Everyone I'm starting the clock now.

1128

01:15:41,000 --> 01:15:43,000

This time the sharks appear almost immediately.

1129

01:15:44,000 --> 01:15:45,000

Two sharks over.

1130

01:15:46,000 --> 01:15:49,000

And the numbers climb faster than the team's heart rate.

1131

01:15:50,000 --> 01:15:52,000

Ten two sharks, twenty three sharks.

1132

01:15:53,000 --> 01:15:55,000

I got a lot of activity down here.

1133

01:15:55,000 --> 01:15:56,000

I got two sharks.

1134

01:15:57,000 --> 01:15:59,000

I got 34 sharks, five, six sharks right here.

1135

01:16:00,000 --> 01:16:02,000

Definitely, it's a slight.

1136

01:16:03,000 --> 01:16:04,000

I'm just creeping me out.

1137

01:16:05,000 --> 01:16:06,000

They're getting really close.

1138

01:16:07,000 --> 01:16:08,000

Wait close to them before.

1139

01:16:09,000 --> 01:16:10,000

Look at this guy right here.

1140

01:16:11,000 --> 01:16:12,000

He's coming straight for the light.

1141

01:16:13,000 --> 01:16:14,000

Already the shark count has reached 12.

1142

01:16:15,000 --> 01:16:16,000

Double that of last night.

1143

01:16:17,000 --> 01:16:18,000

And that's not the only difference.

1144

01:16:19,000 --> 01:16:20,000

Oh my gosh.

1145

01:16:21,000 --> 01:16:22,000

Oh my gosh.

1146

01:16:22,000 --> 01:16:23,000

The shark and the head with the flashlight.

1147

01:16:24,000 --> 01:16:25,000

These sharks are starting to get aggressive.

1148

01:16:26,000 --> 01:16:30,000

Yep, there's a clear distinction between tonight and the control test.

1149

01:16:31,000 --> 01:16:32,000

The close encounters are closer.

1150

01:16:33,000 --> 01:16:35,000

So the team bring a close to the encounters.

1151

01:16:36,000 --> 01:16:38,000

Hey guys, there's still five minutes to go.

1152

01:16:39,000 --> 01:16:40,000

But it's getting dangerous.

1153

01:16:41,000 --> 01:16:42,000

I think we should get out.

1154

01:16:43,000 --> 01:16:44,000

Now you don't need to ask me twice.

1155

01:16:45,000 --> 01:16:46,000

Let's get out of here.

1156

01:16:47,000 --> 01:16:48,000

It's so dangerous that the team pulls the plug.

1157

01:16:48,000 --> 01:16:54,000

It's all lights out as they carefully and somewhat hastily make their way back to the boat.

1158

01:16:55,000 --> 01:16:57,000

That was probably one of the scariest moments of my life.

1159

01:16:58,000 --> 01:16:59,000

I started flashing the flashlight around.

1160

01:17:00,000 --> 01:17:04,000

And all of a sudden there's about nine sharks and they just kept coming in.

1161

01:17:05,000 --> 01:17:06,000

They were going for the camera lights.

1162

01:17:07,000 --> 01:17:08,000

They were going for my flashlight.

1163

01:17:09,000 --> 01:17:10,000

At one time I had to actually punch the shark in the nose with my flashlight.

1164

01:17:11,000 --> 01:17:12,000

Because it came right up in my face.

1165

01:17:13,000 --> 01:17:15,000

And it was just like, okay, call this done.

1166

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

Let's get out of here.

1167

01:17:18,000 --> 01:17:20,000

So I think this was a stellar test.

1168

01:17:21,000 --> 01:17:22,000

Their behavior change.

1169

01:17:23,000 --> 01:17:24,000

You could really see them darting around.

1170

01:17:25,000 --> 01:17:26,000

You could see them going right straight up the light.

1171

01:17:27,000 --> 01:17:28,000

It was like getting their attention.

1172

01:17:29,000 --> 01:17:31,000

Shine the light on them and they want to go after it.

1173

01:17:33,000 --> 01:17:38,000

So in just 15 minutes the flashlights attracted more than twice as many sharks.

1174

01:17:39,000 --> 01:17:41,000

There was a significant change in their behavior.

1175

01:17:42,000 --> 01:17:45,000

And if you're expecting a summary from the team, here it is.

1176

01:17:46,000 --> 01:17:47,000

That test was crazy.

1177

01:17:48,000 --> 01:17:49,000

All right, so let's break it down.

1178

01:17:50,000 --> 01:17:53,000

Well, when we had our flashlights, more sharks came in a shorter amount of time

1179

01:17:54,000 --> 01:17:55,000

and they were much more aggressive.

1180

01:17:56,000 --> 01:17:59,000

Yeah, and when we had our flashlights it seemed like they were going straight for us.

1181

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

True, but maybe it was the light illuminating their normal prey

1182

01:18:03,000 --> 01:18:04,000

and that's what piqued their interest.

1183

01:18:05,000 --> 01:18:07,000

Or maybe the electrical activity from the flashlights attracted them.

1184

01:18:08,000 --> 01:18:12,000

Well, since we can't totally be sure which one it was, I say we call this one plausible.

1185

01:18:13,000 --> 01:18:14,000

Yeah, based on our test I think we can call this one plausible.

1186

01:18:15,000 --> 01:18:16,000

Plausible it is.

1187

01:18:19,000 --> 01:18:24,000

Adam and Jamie are talking to the animals.

1188

01:18:25,000 --> 01:18:26,000

Come on, which one you want?

1189

01:18:27,000 --> 01:18:29,000

Well, we know sharks find me delicious.

1190

01:18:30,000 --> 01:18:36,000

The question is, would they find me more delicious if I'm doing this as opposed to this?

1191

01:18:38,000 --> 01:18:41,000

But our Dr. Doolittle's have yet to answer that question

1192

01:18:42,000 --> 01:18:45,000

because so far their flapping fish test is flawed.

1193

01:18:45,000 --> 01:18:51,000

The myth is, the shark is attracted to the sound or the movement of an injured fish.

1194

01:18:52,000 --> 01:18:57,000

Now, we definitely created that, but it was also clearly a fish and it was smelling like a fish.

1195

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

So we don't know that it was only the movement, it could have been the sight and it could have been the smell.

1196

01:19:02,000 --> 01:19:04,000

At this point in our test we need to remove all the variables.

1197

01:19:05,000 --> 01:19:08,000

This skirt right here will remove any visual cues for the sharks

1198

01:19:09,000 --> 01:19:12,000

and the fact that this is plastic will remove any scent cues for the sharks.

1199

01:19:12,000 --> 01:19:18,000

If the sharks respond to it, it means they're only responding to the sound of the flapping fish.

1200

01:19:19,000 --> 01:19:22,000

Okay, flapping fish, no variables.

1201

01:19:25,000 --> 01:19:28,000

I'm flapping at the surface so it'll make more noise.

1202

01:19:29,000 --> 01:19:32,000

And I can't think that they'd be able to see that, but I can sure hear it.

1203

01:19:34,000 --> 01:19:40,000

After mere minutes of Jamie's shake and fake, the sharks begin to gather.

1204

01:19:40,000 --> 01:19:45,000

They're coming close and they can't see the thing, but they're checking it out.

1205

01:19:46,000 --> 01:19:50,000

And with Jamie attracting interest, but no bites, the conclusions are quick to follow.

1206

01:19:51,000 --> 01:19:58,000

Well, I know what I think. The sharks are interested in what's going on, but they come near the skirt and it doesn't look like anything to eat.

1207

01:19:59,000 --> 01:20:03,000

So I think the real test is, I'm just going to flap on the surface with my rig.

1208

01:20:03,000 --> 01:20:11,000

Jamie's theory being they can hear the flapping and slapping on the surface, but without a visual cue, they're not convinced dinner is on offer.

1209

01:20:12,000 --> 01:20:17,000

But combine the sight and sound of a meal, the sharks take the bait.

1210

01:20:18,000 --> 01:20:21,000

Oh, this is a different bite. I'm just going to keep it on the flapping fish.

1211

01:20:22,000 --> 01:20:23,000

Hey!

1212

01:20:24,000 --> 01:20:29,000

However, while Jamie's having fun up top, inducing a feeding frenzy with fake plastic fish...

1213

01:20:30,000 --> 01:20:32,000

There we go. That's what I'm talking about.

1214

01:20:33,000 --> 01:20:37,000

Adam's what's known in the diving fraternity as freaking out.

1215

01:20:38,000 --> 01:20:46,000

Dude, that was totally out of control. As soon as Jamie removed the blind and exposed the flapping fish, the lemon sharks went nuts.

1216

01:20:47,000 --> 01:20:48,000

Plus, a tiger shark turned up.

1217

01:20:49,000 --> 01:20:50,000

Adam, I'm coming out.

1218

01:20:51,000 --> 01:20:54,000

Which, according to my better judgment, meant I had to be somewhere else.

1219

01:20:55,000 --> 01:20:56,000

Big baby.

1220

01:20:58,000 --> 01:21:02,000

While Adam gets his heart rate back under control, how about some science?

1221

01:21:03,000 --> 01:21:08,000

I'm attracted to flapping fish, sure. They're opportunistic hunters. They're curious.

1222

01:21:09,000 --> 01:21:11,000

They're going to investigate anything that gets their attention.

1223

01:21:12,000 --> 01:21:15,000

But is the sound of flapping fish alone enough to incite an attack?

1224

01:21:16,000 --> 01:21:18,000

No, they need the other stimulus as well.

1225

01:21:20,000 --> 01:21:24,000

Alright guys, I'm ready to call this one if you are plausible.

1226

01:21:25,000 --> 01:21:26,000

What he said?

1227

01:21:27,000 --> 01:21:28,000

Definitely plausible.

1228

01:21:34,000 --> 01:21:41,000

If you're unlucky enough to get attacked by a great white shark, what should you do?

1229

01:21:42,000 --> 01:21:46,000

Accepted wisdom states gouging the shark in the eye will set you free.

1230

01:21:47,000 --> 01:21:51,000

But do you have time to find and gouge before you bleed out?

1231

01:21:54,000 --> 01:22:02,000

For answers, Adam and Jamie have built Bruce, a 17-foot animatronics great white shark with a realistic attack action.

1232

01:22:03,000 --> 01:22:04,000

All they need is some water.

1233

01:22:05,000 --> 01:22:06,000

That's it, yeah!

1234

01:22:07,000 --> 01:22:19,000

Saw with a sprinkle of jump cuts, a dash of audio punctuation and a topping of fast forward, Bruce is sitting on the side of Frisco Bay watching the tide roll away.

1235

01:22:20,000 --> 01:22:28,000

Every morning the high-temper people head out into San Francisco Bay, foraging for the food that will make their nightly meal.

1236

01:22:30,000 --> 01:22:31,000

Where are you going, Adam?

1237

01:22:31,000 --> 01:22:33,000

I was waiting for the tide to come in.

1238

01:22:34,000 --> 01:22:36,000

Be set upon by dangerous robotic sharks.

1239

01:22:37,000 --> 01:22:40,000

There's this tenuous existence at the very edges of society.

1240

01:22:42,000 --> 01:22:45,000

But enough of the high-temin, because surf's up.

1241

01:22:46,000 --> 01:22:50,000

While we're waiting for the tide, I thought we should do a good real-world test of the jaws.

1242

01:22:51,000 --> 01:22:54,000

We're going to give him his first meal, a little bit of a teaser, a decoy, if you will.

1243

01:22:55,000 --> 01:22:56,000

Surfboard.

1244

01:22:57,000 --> 01:22:58,000

See what he does with it.

1245

01:22:59,000 --> 01:23:00,000

Alright, go for it!

1246

01:23:02,000 --> 01:23:09,000

For test one, the boys just want to see how a bite from Bruce compares to the real deal.

1247

01:23:12,000 --> 01:23:13,000

I didn't think he was letting go of that.

1248

01:23:14,000 --> 01:23:21,000

With his anatomically correct teeth and his accurate bite force, Bruce gets a grip that looks identical to that of a great white.

1249

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

That test was great.

1250

01:23:25,000 --> 01:23:30,000

The marks he made in our surfboard look exactly like marks we've seen in surfboards bitten by sharks.

1251

01:23:31,000 --> 01:23:35,000

Okay, so Bruce has the bite and bite force of a real shark.

1252

01:23:37,000 --> 01:23:40,000

But to see if he attacks and thrashes like a real shark.

1253

01:23:41,000 --> 01:23:43,000

Oh, look at that. He's in his jammies again.

1254

01:23:44,000 --> 01:23:45,000

Cue the human analog.

1255

01:23:46,000 --> 01:23:47,000

There we go.

1256

01:23:48,000 --> 01:23:49,000

Isn't that comfy?

1257

01:23:51,000 --> 01:23:58,000

We want to show with the patented Mythbusters human analog that Bruce has the right stuff when it comes to putting a victim through the ringer.

1258

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

He's got it.

1259

01:24:01,000 --> 01:24:02,000

He sure does.

1260

01:24:03,000 --> 01:24:04,000

Come on up and thrash.

1261

01:24:04,000 --> 01:24:05,000

Okay.

1262

01:24:05,000 --> 01:24:08,000

Jamie fires up the pistons and Bruce goes to work.

1263

01:24:08,000 --> 01:24:09,000

Are you ready?

1264

01:24:09,000 --> 01:24:10,000

Okay, go.

1265

01:24:16,000 --> 01:24:17,000

That's like the best toy ever.

1266

01:24:20,000 --> 01:24:26,000

It's not pretty, but Bruce's articulated spine is letting him thrash just like a real shark.

1267

01:24:28,000 --> 01:24:29,000

That's awful.

1268

01:24:29,000 --> 01:24:30,000

That's a horror show.

1269

01:24:32,000 --> 01:24:36,000

I think he's ready for human trials.

1270

01:24:36,000 --> 01:24:40,000

And amid the life-like carnage, the guys did learn something.

1271

01:24:41,000 --> 01:24:45,000

So here's the thing. If a real shark's got you in its jaws, you really don't have much time.

1272

01:24:45,000 --> 01:24:51,000

Not only do you have to worry about chunks being removed, you have to worry about bleeding to death, drowning.

1273

01:24:51,000 --> 01:24:55,000

All this could happen in a few seconds, so if you're going to do something, you better do it quick.

1274

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

In other words, if you don't get to the peepers and penetrate pronto,

1275

01:25:01,000 --> 01:25:04,000

it looks like a dog with a chew toy.

1276

01:25:04,000 --> 01:25:06,000

you could end up like porky.

1277

01:25:06,000 --> 01:25:08,000

There's your problem.

1278

01:25:08,000 --> 01:25:10,000

Actually, it's soon to be Tori's problem.

1279

01:25:10,000 --> 01:25:12,000

We've seen what the shark did to the pig.

1280

01:25:12,000 --> 01:25:15,000

Now we're going to see what the shark does to Tori.

1281

01:25:16,000 --> 01:25:24,000

We're waiting for the tide to come in and Jamie and I realized that we don't make ideal test subjects for this ring because we built it and we know how to stop it.

1282

01:25:24,000 --> 01:25:26,000

So I called Tori.

1283

01:25:26,000 --> 01:25:29,000

Yep, when you need a front man, stunt man,

1284

01:25:32,000 --> 01:25:35,000

or fall guy, who else you going to call?

1285

01:25:35,000 --> 01:25:37,000

Alright, let's do it again.

1286

01:25:37,000 --> 01:25:44,000

And to make sure our next human analog doesn't actually get bitten, Adam replaces the steel teeth with the rubber.

1287

01:25:45,000 --> 01:25:47,000

So why am I here in my wetsuit?

1288

01:25:47,000 --> 01:25:52,000

We have a challenge for you. It's down at the water's edge. Come on down and I'll present it.

1289

01:25:52,000 --> 01:25:54,000

Should I be nervous?

1290

01:25:54,000 --> 01:25:55,000

Yes.

1291

01:25:57,000 --> 01:25:58,000

Holy crap.

1292

01:25:59,000 --> 01:26:00,000

Are you kidding?

1293

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

No.

1294

01:26:01,000 --> 01:26:02,000

What are those teeth made out of?

1295

01:26:02,000 --> 01:26:03,000

The teeth of rubber.

1296

01:26:03,000 --> 01:26:04,000

Okay.

1297

01:26:07,000 --> 01:26:09,000

That is fricking nuts!

1298

01:26:10,000 --> 01:26:16,000

He thrashed you about as hard as we can and you've got to figure out how to stop him from thrashing you about. There is a way.

1299

01:26:16,000 --> 01:26:17,000

Am I the only one?

1300

01:26:18,000 --> 01:26:21,000

Well, actually, once you test it, the insurance company says it's okay for me to go in.

1301

01:26:21,000 --> 01:26:23,000

He sucks.

1302

01:26:23,000 --> 01:26:25,000

Jamie, is this safe?

1303

01:26:25,000 --> 01:26:27,000

I don't know. We're going to find out.

1304

01:26:33,000 --> 01:26:36,000

In case you haven't been paying attention, it's shark week.

1305

01:26:36,000 --> 01:26:40,000

That's a shark that Jamie and I built and it's fully animatronic.

1306

01:26:41,000 --> 01:26:43,000

Dude, it's so perfect.

1307

01:26:43,000 --> 01:26:47,000

We'll throw a test subject all around like a real shark.

1308

01:26:47,000 --> 01:26:53,000

The only way to stop it is to jam your thumbs into his eyeballs, which happen to be emergency stop switches.

1309

01:26:54,000 --> 01:26:59,000

The thing we realized is, neither Jamie nor I makes an ideal test subject for this because we built it. We know how to stop it.

1310

01:26:59,000 --> 01:27:01,000

So I gave Tori a call and...

1311

01:27:01,000 --> 01:27:02,000

Holy crap.

1312

01:27:04,000 --> 01:27:05,000

Are you kidding?

1313

01:27:05,000 --> 01:27:10,000

And we're literally going to throw him into the deep bend and see if he can figure out a way to stop the shark from throwing him about.

1314

01:27:10,000 --> 01:27:11,000

What's my safety word?

1315

01:27:11,000 --> 01:27:12,000

Your safety word?

1316

01:27:12,000 --> 01:27:13,000

I can't feel my leg.

1317

01:27:13,000 --> 01:27:14,000

No, your safety word is...

1318

01:27:14,000 --> 01:27:16,000

Ahhhh! Ahhhh!

1319

01:27:16,000 --> 01:27:17,000

Like that.

1320

01:27:17,000 --> 01:27:18,000

Awesome.

1321

01:27:18,000 --> 01:27:23,000

So Tori has been briefed that he's going to be the victim of a shark attack.

1322

01:27:23,000 --> 01:27:25,000

How did I get signed up for this one?

1323

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

That's all he's got to go on.

1324

01:27:28,000 --> 01:27:32,000

This is probably one of my worst nightmares, being eaten by a great white shark.

1325

01:27:32,000 --> 01:27:35,000

Is there any place I should not stick my hands?

1326

01:27:35,000 --> 01:27:43,000

And what I'm supposed to do is strap myself into the jaws of the shark and then figure a way to make him stop chomping on me.

1327

01:27:44,000 --> 01:27:47,000

Yep, that's the horrifying scenario Tori will be testing.

1328

01:27:47,000 --> 01:27:52,000

A great white has exploded through murky water and taken a bite.

1329

01:27:53,000 --> 01:27:54,000

How's that feel?

1330

01:27:54,000 --> 01:27:55,000

Great.

1331

01:27:55,000 --> 01:27:57,000

It's real comfortable.

1332

01:27:57,000 --> 01:27:58,000

Okay.

1333

01:27:58,000 --> 01:28:03,000

In those few crucial seconds before blood and limb loss weaken and exhaust you...

1334

01:28:03,000 --> 01:28:06,000

I hope you choke on my pelvis bone.

1335

01:28:07,000 --> 01:28:11,000

Can you find and gouge the eyes or will it be too late?

1336

01:28:11,000 --> 01:28:12,000

Tori, you ready?

1337

01:28:12,000 --> 01:28:13,000

Ready.

1338

01:28:13,000 --> 01:28:14,000

Start thrashing.

1339

01:28:21,000 --> 01:28:22,000

Come on.

1340

01:28:22,000 --> 01:28:23,000

There's a way to stop them.

1341

01:28:25,000 --> 01:28:26,000

Alright, he gills.

1342

01:28:26,000 --> 01:28:27,000

We're in the gills.

1343

01:28:30,000 --> 01:28:31,000

Come on.

1344

01:28:32,000 --> 01:28:33,000

You got it.

1345

01:28:33,000 --> 01:28:34,000

Hey!

1346

01:28:36,000 --> 01:28:37,000

His eyes!

1347

01:28:37,000 --> 01:28:39,000

He doesn't like it when you catch his eyes.

1348

01:28:39,000 --> 01:28:40,000

He's got his eyes!

1349

01:28:42,000 --> 01:28:43,000

He figured it out!

1350

01:28:44,000 --> 01:28:46,000

And he was enjoying himself.

1351

01:28:46,000 --> 01:28:50,000

After all, Bruce is only wearing his cosmetic dentures.

1352

01:28:50,000 --> 01:28:56,000

But a shark attack happens in just seconds and Tori took around 15 to find the eyes.

1353

01:28:56,000 --> 01:29:01,000

The grim reality is Tori would have surely died from his injuries.

1354

01:29:01,000 --> 01:29:05,000

Tori was in fact able to find the eye, hit the switch and turn it off.

1355

01:29:05,000 --> 01:29:07,000

That is awesome!

1356

01:29:07,000 --> 01:29:11,000

In my opinion, this was a real life situation.

1357

01:29:11,000 --> 01:29:12,000

It's too late.

1358

01:29:12,000 --> 01:29:16,000

Sharks got you around midsection, a shark that big, fully chomped down.

1359

01:29:16,000 --> 01:29:17,000

You're done.

1360

01:29:17,000 --> 01:29:19,000

Maybe, maybe not.

1361

01:29:19,000 --> 01:29:20,000

Can I get out now?

1362

01:29:22,000 --> 01:29:27,000

Because back in 1963, after being bitten in a similar position to Tori,

1363

01:29:27,000 --> 01:29:30,000

Australian Rodney Fox survived.

1364

01:29:30,000 --> 01:29:34,000

While clamped firmly in the mouth of a three meter great white,

1365

01:29:34,000 --> 01:29:39,000

he had the presence of mind to strike at his attacker's eyes and was released.

1366

01:29:42,000 --> 01:29:47,000

But like Jamie said, the injuries would be massive and you wouldn't have much time.

1367

01:29:49,000 --> 01:29:55,000

So being able to physically reach the eyes in the shortest possible time is the key to this myth.

1368

01:29:55,000 --> 01:29:58,000

Cue the final human analog.

1369

01:29:58,000 --> 01:30:00,000

I'd like to take a ride in our shark.

1370

01:30:00,000 --> 01:30:06,000

More than that, I'd actually like to take a ride in several different positions to see if getting thrashed about

1371

01:30:06,000 --> 01:30:12,000

under different circumstances makes it easier or more difficult to get to the shark's eyeballs.

1372

01:30:12,000 --> 01:30:19,000

And for Adam's first shark attack of the day, he'll be simulating a swimmer on the surface of the water.

1373

01:30:19,000 --> 01:30:23,000

So the shark bit Adam in the ass. Are you ready to go, Adam?

1374

01:30:23,000 --> 01:30:25,000

I'm ready.

1375

01:30:29,000 --> 01:30:35,000

Unlike Tori, Adam knows to go for the odds, but being faced down, he's finding it much harder.

1376

01:30:35,000 --> 01:30:43,000

And that's ignoring what the handicap of genuine hard stopping fear and blood loss would bring to the equation.

1377

01:30:43,000 --> 01:30:45,000

I got it!

1378

01:30:46,000 --> 01:30:50,000

Well, that one I was in a classic swimming position.

1379

01:30:50,000 --> 01:30:58,000

The way you'd be, I think most likely, would be attacked by a shark and it is exponentially more difficult to find the shark's eye that way.

1380

01:30:58,000 --> 01:31:04,000

In fact, I dare say that was a real shark slippery and moving around. I probably wouldn't have been able to do it.

1381

01:31:04,000 --> 01:31:06,000

I got it!

1382

01:31:06,000 --> 01:31:11,000

So it looks like the eye gouging myth boils down to position, position, position.

1383

01:31:11,000 --> 01:31:19,000

This next position I'm going to take in our shark is a little number I like to call the Captain Quint position, or simply the Quint.

1384

01:31:19,000 --> 01:31:20,000

That's it.

1385

01:31:20,000 --> 01:31:30,000

It comes from the end of Jaws when poor Captain Quint slid down the deck of the Orca and into the licking Jaws of Bruce to his doom.

1386

01:31:30,000 --> 01:31:34,000

We've replaced our animatronic shark with a real shark. Let's see if he notices.

1387

01:31:34,000 --> 01:31:37,000

Come on, let's go. I want to ride this puppy.

1388

01:31:37,000 --> 01:31:39,000

Okay, Adam, you ready to go?

1389

01:31:39,000 --> 01:31:41,000

Come on.

1390

01:31:44,000 --> 01:31:50,000

I'll admit, even though it looks like I'm handing it up, being thrust around like that is no picnic.

1391

01:31:50,000 --> 01:31:56,000

Imagine tying your shoes on a roller coaster wearing mittens. It's difficult.

1392

01:31:59,000 --> 01:32:01,000

That's fall.

1393

01:32:01,000 --> 01:32:08,000

In a real situation, I'm sure the big shark of this size is going to even be faster and more violent.

1394

01:32:08,000 --> 01:32:14,000

I don't think you're going to have the time or the ability to dig into those eyes to repel the shark.

1395

01:32:15,000 --> 01:32:21,000

Adam struck me as a little too happy in that last test. We're going to have to do something different.

1396

01:32:21,000 --> 01:32:27,000

In an attempt to up the realism, Jamie's got one last trick up his white shirt sleeve.

1397

01:32:27,000 --> 01:32:33,000

I want more violence out of this shark, so I'm going to double the voltage. It'll double the speed.

1398

01:32:35,000 --> 01:32:39,000

That's about all we can do without blowing these hydraulic motors up.

1399

01:32:39,000 --> 01:32:41,000

All right, I'm ready.

1400

01:32:45,000 --> 01:32:52,000

Yes, this time the difference is clear. Adam's being tossed around like human salad with a wetsuit dressing.

1401

01:32:53,000 --> 01:32:56,000

That last test was the deciding factor for me.

1402

01:32:58,000 --> 01:33:02,000

With the additional power and speed, there was a huge difference.

1403

01:33:02,000 --> 01:33:04,000

That was rough.

1404

01:33:04,000 --> 01:33:09,000

A real shark could be thinking about dessert before Adam could have gotten anywhere near the eyes.

1405

01:33:11,000 --> 01:33:14,000

So what are we going to do with that thing when we get it back to the shop?

1406

01:33:14,000 --> 01:33:16,000

Take it from the ceiling.

1407

01:33:16,000 --> 01:33:19,000

Maybe we can turn it into a big food processor. What do you think?

1408

01:33:22,000 --> 01:33:24,000

You know, I was looking for something to put on that wall.

1409

01:33:24,000 --> 01:33:25,000

We're keeping it?

1410

01:33:25,000 --> 01:33:26,000

We're keeping it.

1411

01:33:26,000 --> 01:33:27,000

Awesome.

1412

01:33:27,000 --> 01:33:28,000

How do you want to call this one?

1413

01:33:28,000 --> 01:33:30,000

Well, there are a couple of elements to this.

1414

01:33:30,000 --> 01:33:33,000

The first one is can you find the eyes?

1415

01:33:33,000 --> 01:33:36,000

The second element is can you find the eyes in time to save your life?

1416

01:33:36,000 --> 01:33:39,000

For the first one, Tori and I both found the eyes every single time.

1417

01:33:39,000 --> 01:33:41,000

Okay, that's one down.

1418

01:33:41,000 --> 01:33:46,000

And as far as how much time it took, that really was variable depending upon the position you're in.

1419

01:33:46,000 --> 01:33:51,000

But as a method of last resort, I would try it. I'm calling this one plausible.

1420

01:33:51,000 --> 01:33:53,000

Okay, plausible it is.