

1

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

The stuff we do is dangerous. Don't try this at home. Where would you call experts?

2

00:00:07,800 --> 00:00:10,040

On this episode of MythBusters,

3

00:00:11,200 --> 00:00:13,600

Adam and Jamie go full throttle.

4

00:00:14,520 --> 00:00:18,080

For the most dangerous stunt in MythBusters history.

5

00:00:18,480 --> 00:00:26,080

Did such an aggressive wheelie his head fell off. Testing the viral video that a motorcycle could surf the surface of a lake.

6

00:00:26,080 --> 00:00:28,080

I want to try it.

7

00:00:28,720 --> 00:00:36,480

But will it be man over bike? Could he plant himself right here and just start flying? Or will Jamie torque on water?

8

00:00:38,440 --> 00:00:43,560

Meanwhile, Carri Torian Grant get the drop on a free fall free for all.

9

00:00:44,400 --> 00:00:46,680

I don't even want to know what the G's are on that.

10

00:00:46,840 --> 00:00:54,120

Finding out if a criminal could make a parachute out of the paraphernalia inside a hotel room. Is that the new fall fashion?

11

00:00:54,880 --> 00:00:56,880

But will there crazy canopies?

12

00:00:58,080 --> 00:01:00,680

A lot of wet floors with all these shower curtains missing.

13

00:01:00,680 --> 00:01:03,680

Let Buster skydive and survive.

14

00:01:04,280 --> 00:01:05,080

Come on.

15

00:01:05,680 --> 00:01:06,440

Open.

16

00:01:11,080 --> 00:01:13,080

Who are the MythBusters?

17

00:01:14,000 --> 00:01:17,200

Adam Savage. This is science in action.

18

00:01:17,200 --> 00:01:18,400

And Jamie Heineman.

19

00:01:19,000 --> 00:01:19,680

Bye-bye.

20

00:01:20,400 --> 00:01:26,600

Between them more than 30 years of special effects experience. Together with Brad Dimahara.

21

00:01:26,600 --> 00:01:28,200

That is crazy.

22

00:01:28,200 --> 00:01:29,200

Carri Byron.

23

00:01:30,400 --> 00:01:32,000

And Tori Balachian.

24

00:01:32,000 --> 00:01:34,000

It's about to get real.

25

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

They don't just tell the myths.

26

00:01:37,000 --> 00:01:39,000

They put them to the test.

27

00:01:50,800 --> 00:01:54,800

Jamie, you remember when Carri Grant and Tori did the episode about a sports car skipping across a lake?

28

00:01:54,800 --> 00:01:55,600

I do.

29

00:01:55,800 --> 00:01:57,800

Fifty miles an hour.

30

00:02:01,400 --> 00:02:03,400

That car didn't skip. It flipped.

31

00:02:03,800 --> 00:02:09,600

We got one similar to that this time except this time it's a motorcycle riding on the water.

32

00:02:10,000 --> 00:02:12,800

A motorcycle actually riding on top of water.

33

00:02:12,800 --> 00:02:16,600

Apparently we got a motorcycleist. He's riding down the freeway way too fast.

34

00:02:16,600 --> 00:02:19,800

He comes to a bend and when he comes to the bend he can't make it.

35

00:02:20,000 --> 00:02:26,000

So he plows right through it and there is a lake except that he stays on top of the lake and makes it safely to the other side.

36

00:02:26,000 --> 00:02:29,000

It's dangerous and fun. I'm in.

37

00:02:29,000 --> 00:02:30,000

Excellent.

38

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

Motorbikes and water seem like a catastrophic combination.

39

00:02:39,000 --> 00:02:47,000

Yet according to this myth, if you take the lake at freeway speeds you could burn aqua all the way to the other side.

40

00:02:47,200 --> 00:02:51,200

But will this physics defying feat prove more sink than skim?

41

00:02:52,200 --> 00:02:55,200

Clearly this episode ends with one of us.

42

00:02:55,200 --> 00:03:01,200

I'm guessing it's you riding a big powerful motorcycle and attempting to keep it on top of the water.

43

00:03:01,200 --> 00:03:08,200

Yeah, but I don't think we should just jump right into this because it involves high speed crashes, drowning, broken bones.

44

00:03:08,200 --> 00:03:09,200

It's risky.

45

00:03:09,200 --> 00:03:12,200

All right. Well, they do make some very powerful RC motorcycles.

46

00:03:12,400 --> 00:03:17,400

What say we take one of those out into the field, ride them over a small body of water and see what we can learn on the high speed camera?

47

00:03:17,400 --> 00:03:18,400

Sure. Why not?

48

00:03:23,400 --> 00:03:27,400

And we're not going to be going stampeding towards full scale right away in this story.

49

00:03:27,400 --> 00:03:37,400

We've come to a basically off road motorcycle park not far from the Mythbusters shop and we're going to be doing a little bit of experimenting with these.

50

00:03:37,400 --> 00:03:41,400

These are little radio controlled motorcycles and they happen to have a gyro-tron.

51

00:03:42,400 --> 00:03:45,400

They're going to have a gyroscope in the rear wheel to help them stabilize as they go.

52

00:03:45,400 --> 00:03:48,400

The top speed on them is about 20 miles an hour.

53

00:03:48,400 --> 00:03:50,400

What that'll do in water?

54

00:03:50,400 --> 00:03:53,400

I have no idea, but that's what we're here to find out.

55

00:03:56,400 --> 00:04:00,400

Well, our scale bikes require a scaled pool and that's just what this is.

56

00:04:00,400 --> 00:04:11,400

With a nice gentle transition over there, it's only a couple of inches deep and with the aid of our high speed camera, hopefully it will illuminate some key things we need to know about whether or not bikes can stay on top of the road.

57

00:04:12,400 --> 00:04:17,400

Add with the H2O ready to go, it's time for the wheels to meet the water.

58

00:04:17,400 --> 00:04:18,400

Here we go.

59

00:04:18,400 --> 00:04:19,400

Oh!

60

00:04:25,400 --> 00:04:26,400

Nice!

61

00:04:29,400 --> 00:04:31,400

Mr. Heidemann delivers.

62

00:04:31,400 --> 00:04:34,400

No riding a bike through water, he wheelies through water.

63

00:04:35,400 --> 00:04:41,400

It's not quite the wheel deal as this myth is about skimming on two wheels, not one.

64

00:04:41,600 --> 00:04:44,600

But luckily they don't have long to wait.

65

00:04:44,600 --> 00:04:45,600

Yeah, this is it!

66

00:04:46,600 --> 00:04:47,600

Woo!

67

00:04:47,600 --> 00:04:50,600

As the Heidemann masters the two wheel maneuver.

68

00:04:50,600 --> 00:04:51,600

Yeah!

69

00:04:51,600 --> 00:04:52,600

Woo!

70

00:04:53,600 --> 00:05:03,600

And for triumphant trips later, it's time to see if the bike's riding the top of the pond or the bottom, thanks to the high speed review.

71

00:05:03,600 --> 00:05:06,600

But let's see what we can learn.

72

00:05:07,600 --> 00:05:12,600

Wow, it's sort of on the surface right in the beginning because it's coming off of that initial ramp.

73

00:05:12,600 --> 00:05:14,600

The rear wheel is down though.

74

00:05:14,600 --> 00:05:16,600

And it's going down further.

75

00:05:16,600 --> 00:05:20,600

At this point, it's clear that both wheels are down.

76

00:05:20,600 --> 00:05:22,600

It is definitely deep in the water.

77

00:05:22,600 --> 00:05:27,600

It's almost deep enough where I could say it really feels like it's riding on the bottom.

78

00:05:27,600 --> 00:05:29,600

It's not the news they were looking for.

79

00:05:29,600 --> 00:05:35,600

On each and every run, their bike is driving through the water and not over it.

80

00:05:36,600 --> 00:05:42,600

And that means for this myth to stay afloat, Adam and Janie are going to need a plan B.

81

00:05:46,600 --> 00:05:50,600

Next, Carri-Torre and Grant shoot the breeze.

82

00:05:52,600 --> 00:05:58,600

Alright, so this next one sounds like a Hollywood action movie, but apparently it's totally legit.

83

00:05:58,600 --> 00:05:59,600

Alright, let's hear it.

84

00:05:59,600 --> 00:06:04,600

Alright, so wanted criminal, surrounded by police, tracked down to the 20th floor of a hotel.

85

00:06:04,600 --> 00:06:08,600

After a protracted negotiation, they break down the door and guess what they find?

86

00:06:08,600 --> 00:06:10,600

Money, jewels.

87

00:06:10,600 --> 00:06:13,600

Yes, but also a homemade parachute.

88

00:06:13,600 --> 00:06:14,600

That one sounds familiar.

89

00:06:14,600 --> 00:06:19,600

The guy was stuck in his hotel room for three hours and he started making a homemade parachute out

of sheets and shower curtains.

90

00:06:19,600 --> 00:06:23,600

But he never made the jump because the police broke in and caught him before he could.

91

00:06:23,600 --> 00:06:24,600

So he never jumped.

92

00:06:24,600 --> 00:06:26,600

We don't know if the parachute actually works.

93

00:06:26,600 --> 00:06:27,600

Exactly.

94

00:06:27,600 --> 00:06:30,600

Can you make a homemade parachute out of things you can find in a standard hotel room?

95

00:06:30,600 --> 00:06:31,600

Cool.

96

00:06:32,600 --> 00:06:37,600

Yep, this audacious escape escapade comes straight from the criminal mind.

97

00:06:37,600 --> 00:06:41,600

Supposedly, this bad guy was going to wing it with a makeshift shoot.

98

00:06:41,600 --> 00:06:44,600

But could he have defeated gravity for this getaway?

99

00:06:44,600 --> 00:06:49,600

Is there any way an improvised parachute could let you down safely?

100

00:06:50,600 --> 00:06:51,600

Alright guys, how about this?

101

00:06:51,600 --> 00:06:56,600

We get all of the standard contents from a hotel room, you know, drapes, sheets, shower curtains, lamp cords,

102

00:06:56,600 --> 00:06:59,600

and we have three hours to build a parachute.

103

00:06:59,600 --> 00:07:00,600

Well, it's great.

104

00:07:00,600 --> 00:07:04,600

We can connect each of our shoots to Buster and drum from 20 stories just like in the myth.

105

00:07:04,600 --> 00:07:05,600

Alright, well we better get cracking.

106

00:07:05,600 --> 00:07:07,600

The police are on their way.

107

00:07:09,600 --> 00:07:10,600

Where's he going?

108

00:07:10,600 --> 00:07:13,600

Yep, first it's a build off or shoot out.

109

00:07:13,600 --> 00:07:18,600

We're working on the myth that you can make a parachute out of common things you might find in a hotel room.

110

00:07:18,600 --> 00:07:20,600

Now, that gives us so much material.

111

00:07:20,600 --> 00:07:24,600

We've got the bedding on the beds, the curtains, the blackout curtains, the rods, the strings,

112

00:07:24,600 --> 00:07:28,600

any cords you could find from lamps or TVs or ethernet cables,

113

00:07:28,600 --> 00:07:30,600

and the wealth that is the bathroom.

114

00:07:30,600 --> 00:07:33,600

And we have shower curtains, towels, anything you can think of.

115

00:07:33,600 --> 00:07:37,600

Now, we have three hours to do this because the burglar only had three hours

116

00:07:37,600 --> 00:07:41,600

to see which of us could come up with the most successful parachute.

117

00:07:41,600 --> 00:07:43,600

And the clock starts now.

118

00:07:43,600 --> 00:07:47,600

So the first decision is to choose their weaving of choice.

119

00:07:47,600 --> 00:07:50,600

So what I'm going to use is this blackout curtain.

120

00:07:50,600 --> 00:07:52,600

It's fabric coated by plastic.

121

00:07:52,600 --> 00:07:54,600

That's going to give me a lot of wind resistance.

122

00:07:54,600 --> 00:07:58,600

And not only that, that plastic coating is going to give me more strength.

123

00:07:58,600 --> 00:07:59,600

Hopefully this will work.

124

00:07:59,600 --> 00:08:03,600

I'm starting out with the lightest, least porous materials that I could find,

125

00:08:03,600 --> 00:08:06,600

which are the shower curtains, the liners.

126

00:08:06,600 --> 00:08:09,600

I'm going to attach them and make them the base of my parachute.

127

00:08:09,600 --> 00:08:11,600

I figure they'll hold the air the best.

128

00:08:11,600 --> 00:08:14,600

So what I'm doing is using these curtain rods to make a frame.

129

00:08:14,600 --> 00:08:18,600

And then from that, I'm going to drape this duvet cover over it.

130

00:08:18,600 --> 00:08:21,600

The reason I chose a duvet cover as opposed to regular sheets

131

00:08:21,600 --> 00:08:23,600

is I didn't want to sew any seams.

132

00:08:23,600 --> 00:08:27,600

I think if I have any seams in there, it's going to be not as strong.

133

00:08:27,600 --> 00:08:30,600

Indeed, because strength is vital,

134

00:08:30,600 --> 00:08:33,600

considering what their improvised shoots have to mimic.

135

00:08:33,600 --> 00:08:37,600

Now, the way a parachute works is by increasing the surface area of a falling object.

136

00:08:37,600 --> 00:08:39,600

So that way it has more contact with air.

137

00:08:39,600 --> 00:08:43,600

And it's this air resistance that accelerates the terminal velocity of a human

138

00:08:43,600 --> 00:08:47,600

from 120 miles an hour to less than five miles per hour for a soft landing.

139

00:08:47,600 --> 00:08:49,600

So that's what we're trying to match.

140

00:08:49,600 --> 00:08:54,600

Yep, it's a head-to-head challenge that's going to require some clever crafting.

141

00:08:54,600 --> 00:08:58,600

Whoa, what hotel are you staying in, the Ritz?

142

00:08:58,600 --> 00:09:02,600

I don't know, this looks more like the kind of hotel where you could rent the hot tub by the hour.

143

00:09:02,600 --> 00:09:06,600

And each myth buster is opting for a different shape of canopy.

144

00:09:06,600 --> 00:09:10,600

It's quite a challenge, especially with shower curtains and sheets.

145

00:09:10,600 --> 00:09:14,600

Grant's going for 144 square feet of fabric.

146

00:09:14,600 --> 00:09:18,600

I already ripped it. It's not a good thing.

147

00:09:18,600 --> 00:09:22,600

While Carrie is sewing sheets into a more traditional dome design.

148

00:09:22,600 --> 00:09:24,600

I'm using the cord from the curtains to tie it together,

149

00:09:24,600 --> 00:09:29,600

and then I'm leaving a hole right in the middle so that it should sail down straight.

150

00:09:29,600 --> 00:09:33,600

If that doesn't work, I'm going to tie a pillow to my head like a helmet.

151

00:09:33,600 --> 00:09:36,600

And Tori is patching together a rectangular shoot.

152

00:09:36,600 --> 00:09:41,600

So we're already one hour into this challenge, and I'm looking at the size of my parachute.

153

00:09:41,600 --> 00:09:45,600

I don't think this is going to be good enough. I don't think I'm going to get this done.

154

00:09:45,600 --> 00:09:47,600

It's my harness.

155

00:09:47,600 --> 00:09:49,600

What is that, the new fall fashion?

156

00:09:49,600 --> 00:09:53,600

Okay, time pressure is starting to get to me because I just don't think I can get this done.

157

00:09:53,600 --> 00:09:55,600

I don't think I can get this done in three hours.

158

00:09:57,600 --> 00:10:02,600

With less than five minutes to go, the guys race to stitch up this challenge.

159

00:10:02,600 --> 00:10:07,600

So what I've done is I've ripped out all the electrical wiring in my hotel room.

160

00:10:07,600 --> 00:10:11,600

So I'm going to diverge you this once, and I'm going to use that as my stringers for my parachute.

161

00:10:11,600 --> 00:10:13,600

I am feeling pretty darn confident.

162

00:10:13,600 --> 00:10:16,600

And with some last minute adjustments.

163

00:10:16,600 --> 00:10:19,600

If this is knotting on the ground, what's it going to do in the air?

164

00:10:19,600 --> 00:10:23,600

Oh man, I got 60 seconds.

165

00:10:23,600 --> 00:10:28,600

The cutting, taping, sewing, and sweating comes to an end.

166

00:10:28,600 --> 00:10:29,600

And...

167

00:10:29,600 --> 00:10:30,600

Done!

168

00:10:30,600 --> 00:10:31,600

Done.

169

00:10:31,600 --> 00:10:32,600

Done.

170

00:10:32,600 --> 00:10:33,600

Done!

171

00:10:33,600 --> 00:10:38,600

Three hours, three mythbusters, and three hotel rooms full of fabric later.

172

00:10:38,600 --> 00:10:41,600

And they've got three parachutes ready for the drop zone.

173

00:10:41,600 --> 00:10:45,600

You might think it looks a little flimsy, but hey, it's only got to work once.

174

00:10:45,600 --> 00:10:47,600

Is this going to save Buster's life? I don't know.

175

00:10:47,600 --> 00:10:51,600

But if I had to jump off a building and I had a choice between no parachute and this parachute,

176

00:10:51,600 --> 00:10:53,600

I guarantee you I'll take this choice.

177

00:10:54,600 --> 00:10:57,600

Wow, Kerry. That's a nice looking parachute you made.

178

00:10:57,600 --> 00:10:59,600

It actually looks like parachute.

179

00:10:59,600 --> 00:11:03,600

It's an artistic rendition of a parachute. Let's see if it actually flies like one.

180

00:11:03,600 --> 00:11:05,600

Alright, you ready? Let's do it.

181

00:11:08,600 --> 00:11:09,600

Three!

182

00:11:09,600 --> 00:11:10,600

Later, Buster goes down.

183

00:11:10,600 --> 00:11:12,600

One, two, three!

184

00:11:13,600 --> 00:11:15,600

And the tension rams up.

185

00:11:15,600 --> 00:11:16,600

Let's launch the beast.

186

00:11:16,600 --> 00:11:17,600

Now or never.

187

00:11:17,600 --> 00:11:20,600

But can a motorcycle ever turn motorboat?

188

00:11:21,600 --> 00:11:25,600

It's a myth that's hell on two wheels.

189

00:11:25,600 --> 00:11:29,600

But could a motorbike ever turn motorboat?

190

00:11:29,600 --> 00:11:34,600

Well, so far, you can lead a bike to water, but you can't make it skim.

191

00:11:34,600 --> 00:11:36,600

However, all is not lost.

192

00:11:37,600 --> 00:11:39,600

I, for one, learned a lot from that test.

193

00:11:39,600 --> 00:11:43,600

Yeah, who knew that you could wheelie across water and your head would fall off?

194

00:11:43,600 --> 00:11:48,600

Look, I want to somehow see if a motorcycle wheel actually does a thing.

195

00:11:48,600 --> 00:11:53,600

I want to see if a motorcycle wheel at speed gains real buoyancy on the water's surface.

196

00:11:53,600 --> 00:11:58,600

But how are we going to get one of these going 60 or 70 miles an hour on water under controlled conditions?

197

00:11:58,600 --> 00:12:00,600

Well, riding on water says boat to me.

198

00:12:00,600 --> 00:12:03,600

So why don't we hang the wheel off the side of a boat?

199

00:12:03,600 --> 00:12:05,600

They make boats that go 70 or 80 miles an hour?

200

00:12:05,600 --> 00:12:06,600

You bet they do.

201

00:12:06,600 --> 00:12:13,600

Yep, with top speeds of over 90 miles per hour, power boats sure can pace across a pond.

202

00:12:13,600 --> 00:12:20,600

But before they feel the need for speed, first they need to rustle up the wheel in the water.

203

00:12:20,600 --> 00:12:21,600

What you got?

204

00:12:21,600 --> 00:12:24,600

Well, at its most basic, this is the boat.

205

00:12:24,600 --> 00:12:26,600

This is the motorcycle wheel and scale to that boat.

206

00:12:26,600 --> 00:12:33,600

Obviously, you can sit in the water like this, and when we get up to speed, if the wheel does get buoyancy, it would rise up.

207

00:12:33,600 --> 00:12:36,600

And then the question is, how much weight can it support?

208

00:12:36,600 --> 00:12:38,600

And that's where this comes in.

209

00:12:38,600 --> 00:12:42,600

We can put on barbell weights of various sizes.

210

00:12:42,600 --> 00:12:43,600

Okay.

211

00:12:43,600 --> 00:12:44,600

Until we determine how much weight.

212

00:12:44,600 --> 00:12:45,600

Sure.

213

00:12:45,600 --> 00:12:47,600

I think this is pretty straightforward.

214

00:12:47,600 --> 00:12:52,600

It may be straightforward for Adam, but for the rest of us, here's a graphic.

215

00:12:52,600 --> 00:12:55,600

The weight of a motorbike means that in water, it'll sink.

216

00:12:55,600 --> 00:13:00,600

But if its wheels were spinning at highway speeds, could that keep it afloat?

217

00:13:00,600 --> 00:13:05,600

To find out, the plan is to attach a motorbike wheel to a speedboat.

218

00:13:05,600 --> 00:13:10,600

Then as the boat accelerates, the wheel should spin up onto the surface.

219

00:13:10,600 --> 00:13:16,600

But will it stay above water as the weight of a rider is added to it?

220

00:13:16,600 --> 00:13:19,600

It's a dastardly design.

221

00:13:19,600 --> 00:13:24,600

But in the workshop, Adam's galloping through the build.

222

00:13:24,600 --> 00:13:28,600

I don't know, for some reason it reminds me of a horse rearing up.

223

00:13:28,600 --> 00:13:31,600

A horse made of steel.

224

00:13:31,600 --> 00:13:38,600

And before you can say chrome pony, his steel rim rig is ready to saddle up.

225

00:13:38,600 --> 00:13:42,600

And on a local lake, it's time to put it to the test.

226

00:13:42,600 --> 00:13:47,600

The open air, the sun, there's just nothing not to love about boating, honestly.

227

00:13:47,600 --> 00:13:49,600

Let's get this thing in the water.

228

00:13:49,600 --> 00:13:50,600

Okay.

229

00:13:50,600 --> 00:13:52,600

This year is our test platform.

230

00:13:52,600 --> 00:13:56,600

20 feet long with a 300 horsepower outboard engine and a tunnel hull design.

231

00:13:56,600 --> 00:14:02,600

She is built for racing, built for speed, and will go between 85 and 90 miles per hour.

232

00:14:02,600 --> 00:14:04,600

Perfect for our testing purposes.

233

00:14:04,600 --> 00:14:06,600

First up, we need to get our rig bolted to it.

234

00:14:06,600 --> 00:14:08,600

The plan here is simple.

235

00:14:08,600 --> 00:14:10,600

Bolt the wheel to the boat.

236

00:14:10,600 --> 00:14:12,600

I claim the scientific rig in the name of...

237

00:14:12,600 --> 00:14:14,600

...with busters.

238

00:14:14,600 --> 00:14:17,600

Lower the boat into the water.

239

00:14:17,600 --> 00:14:18,600

Perfect.

240

00:14:18,600 --> 00:14:20,600

And then take it for a spin.

241

00:14:20,600 --> 00:14:22,600

Let's get this party started.

242

00:14:22,600 --> 00:14:24,600

All right.

243

00:14:24,600 --> 00:14:26,600

Are you ready?

244

00:14:26,600 --> 00:14:27,600

Ready.

245

00:14:27,600 --> 00:14:28,600

Go!

246

00:14:28,600 --> 00:14:32,600

But almost immediately, it's clear that there's a problem.

247

00:14:32,600 --> 00:14:37,600

The tail end is so heavy that the boat's not only taking on water...

248

00:14:37,600 --> 00:14:39,600

You're spilling water over the side there.

249

00:14:39,600 --> 00:14:42,600

...its top speed has plummeted.

250

00:14:42,600 --> 00:14:48,600

Our problem is there's so much drag, the boat's not able to get up on a plane where it sits on top of the water.

251

00:14:48,600 --> 00:14:50,600

That's where the real speed happens.

252

00:14:50,600 --> 00:14:52,600

Jamie's going to crawl up to the bow.

253

00:14:52,600 --> 00:14:55,600

I'm going to rig the wheel up and we'll see if it works.

254

00:14:55,600 --> 00:14:58,600

So with Jamie clinging on as a counterbalance...

255

00:14:58,600 --> 00:15:02,600

I've actually done this before to hang on top of the car.

256

00:15:02,600 --> 00:15:04,600

It's the moment of truth.

257

00:15:04,600 --> 00:15:05,600

Okay.

258

00:15:05,600 --> 00:15:07,600

All right. Here we go.

259

00:15:07,600 --> 00:15:11,600

Come on! Come on! Come on! Come on!

260

00:15:11,600 --> 00:15:14,600

At first, it all hangs in the balance.

261

00:15:14,600 --> 00:15:18,600

But when Adam gives the wheel a shove, they finally pick up speed.

262

00:15:18,600 --> 00:15:20,600

There it goes.

263

00:15:22,600 --> 00:15:24,600

As the boat clocks 50...

264

00:15:24,600 --> 00:15:25,600

Yes!

265

00:15:25,600 --> 00:15:26,600

Yeah!

266

00:15:26,600 --> 00:15:28,600

...then 60 miles per hour.

267

00:15:28,600 --> 00:15:29,600

Come on!

268

00:15:30,600 --> 00:15:36,600

It's clear that the wheel is riding the water, which is great for the myth.

269

00:15:36,600 --> 00:15:41,600

What's less great is that this crazy contraption is so dangerous...

270

00:15:41,600 --> 00:15:43,600

Yeah!

271

00:15:43,600 --> 00:15:44,600

Whoa, whoa, whoa!

272

00:15:44,600 --> 00:15:45,600

Come on up!

273

00:15:46,600 --> 00:15:47,600

That's scary!

274

00:15:48,600 --> 00:15:51,600

...that the guys decide to quit while they're ahead.

275

00:15:51,600 --> 00:15:52,600

Oh!

276

00:15:57,600 --> 00:16:00,600

All right. I've got some good news and some bad news.

277

00:16:00,600 --> 00:16:02,600

I'm going to start with the bad.

278

00:16:02,600 --> 00:16:05,600

The bad news is that our rig didn't quite work as planned.

279

00:16:05,600 --> 00:16:09,600

We had really wanted to start to add weight and experiment with different speeds of the boat

280

00:16:09,600 --> 00:16:15,600

to come up with a graph of speed to weight ratio that would tell us exactly how fast we'd have to hit the water at

281

00:16:15,600 --> 00:16:18,600

for the motorcycle wheel to support its rider.

282

00:16:18,600 --> 00:16:20,600

And we didn't quite get that.

283

00:16:20,600 --> 00:16:22,600

The good news is that even though it took everything we had,

284

00:16:22,600 --> 00:16:26,600

we were able to get the boat up on a plane and the wheel skipping across the water,

285

00:16:26,600 --> 00:16:31,600

which means that there is something to this and it means we can proceed with some confidence to full scale

286

00:16:31,600 --> 00:16:33,600

that this might just work.

287

00:16:36,600 --> 00:16:42,600

Cornered by the cops, could you improvise a parachute, defeat the free fall and flee to freedom?

288

00:16:42,600 --> 00:16:46,600

To find out, Carrie, Tori and Grant have unraveled the record

289

00:16:46,600 --> 00:16:50,600

and now have three makeshift shoots to deploy.

290

00:16:50,600 --> 00:16:56,600

It's time to find out if any of our do-it-yourself hotel parachutes can decelerate Buster gently to the ground.

291

00:16:56,600 --> 00:17:01,600

We've come out to Treasure Island on a beautiful day with a crane that can lift him 20 stories into the air.

292

00:17:01,600 --> 00:17:07,600

We're going to drop him with each of our designs, but first, the control. No parachute.

293

00:17:07,600 --> 00:17:12,600

Now to find out exactly what Buster is going to be experiencing in this drop, we're going to attach an accelerometer.

294

00:17:12,600 --> 00:17:16,600

Now for him to survive this fall, he has to withstand less than 100 Gs.

295

00:17:16,600 --> 00:17:20,600

For him to survive the fall without injury, he has to withstand less than 10 Gs.

296

00:17:20,600 --> 00:17:22,600

Don't look so sad, buddy.

297

00:17:22,600 --> 00:17:28,600

Yep, once again, Buster will have to do what he does best and take the fall from 200 feet.

298

00:17:28,600 --> 00:17:32,600

Alright, here we go. Bye-bye, Buster. In three, two, one.

299

00:17:39,600 --> 00:17:42,600

God, I don't even want to know what the Gs are on that.

300

00:17:43,600 --> 00:17:45,600

Well, thanks to the accelerometer.

301

00:17:45,600 --> 00:17:47,600

Alright, see what we got.

302

00:17:47,600 --> 00:17:49,600

It's easy enough to find out.

303

00:17:49,600 --> 00:17:52,600

Wow, look at that. 500 Gs.

304

00:17:52,600 --> 00:17:57,600

And he hit the ground at 83 miles an hour. He definitely did not survive that.

305

00:17:57,600 --> 00:18:02,600

But we'll jumping from 20 stories with a homemade shoot be any better.

306

00:18:03,600 --> 00:18:11,600

Here's why we're hoping our parachutes will work. Gravity acts on all objects, no matter how much they weigh, causing them to fall at the same rate.

307

00:18:13,600 --> 00:18:19,600

The only reason why two objects won't fall at the same rate is because of air resistance.

308

00:18:19,600 --> 00:18:22,600

These two pieces of paper, in fact, do weigh the same amount.

309

00:18:22,600 --> 00:18:28,600

But this one has a lot more surface air. It has to push a lot more air molecules out of the way to fall down.

310

00:18:28,600 --> 00:18:35,600

And thus, in order for this myth to be confirmed, this is what our parachutes will have to do.

311

00:18:35,600 --> 00:18:36,600

You ready?

312

00:18:36,600 --> 00:18:37,600

I am ready.

313

00:18:37,600 --> 00:18:41,600

And first to attempt that is Tori's blackout curtain canopy.

314

00:18:41,600 --> 00:18:43,600

That's something you don't see every day.

315

00:18:44,600 --> 00:18:49,600

Blackout curtain parachute drop in three, two, one.

316

00:18:53,600 --> 00:18:54,600

Yeah!

317

00:18:56,600 --> 00:19:00,600

Amazingly, Tori's shoot deployed and slowed Buster down.

318

00:19:00,600 --> 00:19:04,600

But unfortunately, not enough to head off the impact.

319

00:19:04,600 --> 00:19:07,600

Oh, Buster lost his hand.

320

00:19:07,600 --> 00:19:10,600

That is a bad sign.

321

00:19:11,600 --> 00:19:14,600

So we just dropped the blackout curtain parachute.

322

00:19:14,600 --> 00:19:16,600

And there's some good news, but there's some really bad news.

323

00:19:16,600 --> 00:19:20,600

The good news is the parachute opened and it decelerated Buster's descent.

324

00:19:20,600 --> 00:19:25,600

However, the bad news, when he hit the ground, he hit it with 160 Gs.

325

00:19:26,600 --> 00:19:30,600

That's well over 100 Gs, therefore Buster is dead.

326

00:19:30,600 --> 00:19:33,600

That brings the curtain down on Tori.

327

00:19:33,600 --> 00:19:36,600

But Grant's frame up is still to go.

328

00:19:36,600 --> 00:19:41,600

We got a technical difficulty.

329

00:19:41,600 --> 00:19:42,600

Oh boy.

330

00:19:42,600 --> 00:19:44,600

Trouble in Myth Busterland.

331

00:19:44,600 --> 00:19:48,600

The wind has picked up and apparently Grant's rig does not like that.

332

00:19:49,600 --> 00:19:51,600

Had to be a windy day, didn't it?

333

00:19:51,600 --> 00:19:55,600

Yep, Grant and his frame are all bent out of shape.

334

00:19:55,600 --> 00:19:58,600

But can the parachute still bring Buster down safely?

335

00:19:58,600 --> 00:20:00,600

Look at that!

336

00:20:00,600 --> 00:20:01,600

You guys!

337

00:20:01,600 --> 00:20:03,600

You can be flattened out of this!

338

00:20:03,600 --> 00:20:04,600

Oh man!

339

00:20:04,600 --> 00:20:05,600

Oh boy!

340

00:20:05,600 --> 00:20:11,600

Here we go, this is canopy parachute in three, two, one!

341

00:20:13,600 --> 00:20:15,600

Hey! Hey!

342

00:20:18,600 --> 00:20:20,600

Woohoo!

343

00:20:21,600 --> 00:20:25,600

Yep, as it turns out, that was an impact of 144 Gs,

344

00:20:25,600 --> 00:20:29,600

a quarter of the control, but still a lethal landing.

345

00:20:30,600 --> 00:20:32,600

He hit the ground at 29 miles an hour.

346

00:20:32,600 --> 00:20:36,600

That is well above our benchmark of 100 Gs, which is survivable.

347

00:20:36,600 --> 00:20:38,600

So Buster died with that parachute.

348

00:20:38,600 --> 00:20:43,600

And for Buster's final flight, it's time to put Kari's six sheets to the wind.

349

00:20:44,600 --> 00:20:49,600

Look, I like my design, but honestly, I wish I'd thought of Kari's design.

350

00:20:49,600 --> 00:20:50,600

I mean, look at it.

351

00:20:50,600 --> 00:20:52,600

It looks like a real modern day parachute.

352

00:20:52,600 --> 00:20:54,600

Come on, criminal!

353

00:20:54,600 --> 00:21:00,600

Got a huge amount of surface area, and it's got an event at the top to direct the air throughs.

354

00:21:00,600 --> 00:21:02,600

It's going to have great stability.

355

00:21:02,600 --> 00:21:05,600

I think this one has a really good chance of saving Buster.

356

00:21:05,600 --> 00:21:09,600

This is curtain parachute in three, two, one!

357

00:21:10,600 --> 00:21:11,600

There you go!

358

00:21:13,600 --> 00:21:14,600

Oh!

359

00:21:14,600 --> 00:21:16,600

He had a little deployment issue.

360

00:21:16,600 --> 00:21:18,600

Late deployment!

361

00:21:19,600 --> 00:21:22,600

Kari's late deploying shoot did decelerate Buster,

362

00:21:22,600 --> 00:21:28,600

but he still hit the ground at 160 Gs, well above the lethal limit.

363

00:21:28,600 --> 00:21:30,600

Okay, this is not looking good for the myth.

364

00:21:30,600 --> 00:21:32,600

I mean, we looked at the data for all the drops.

365

00:21:32,600 --> 00:21:34,600

There's not one survivable fall.

366

00:21:34,600 --> 00:21:35,600

We have to start from scratch.

367

00:21:35,600 --> 00:21:39,600

Well, maybe we try different fabrics and pick out the best parts of each of our designs.

368

00:21:39,600 --> 00:21:44,600

All right, well, let's go back to the shop and see if we can figure out how to make a parachute that actually works.

369

00:21:48,600 --> 00:21:50,600

The Mythbusters

370

00:21:56,600 --> 00:21:58,600

YouTube says yes.

371

00:21:59,600 --> 00:22:02,600

The Mythbusters say maybe.

372

00:22:04,600 --> 00:22:08,600

But can a motorbike really skate the surface of a lake?

373

00:22:12,600 --> 00:22:14,600

I think I might have beat Jamie.

374

00:22:16,600 --> 00:22:17,600

Maybe not.

375

00:22:17,600 --> 00:22:21,600

Well, it's time for this myth to surf up or ship out.

376

00:22:21,600 --> 00:22:23,600

Ever since we first started talking about doing this story,

377

00:22:23,600 --> 00:22:25,600

we knew, of course, we'd finish on a lake,

378

00:22:25,600 --> 00:22:30,600

and we had a very specific list of attributes we considered critical for this lake to have

379

00:22:30,600 --> 00:22:32,600

in order for us to have any chance of success.

380

00:22:32,600 --> 00:22:35,600

Number one, the lake needed to be smooth and calm.

381

00:22:35,600 --> 00:22:40,600

Two, we needed the land to water transition to be incredibly gentle.

382

00:22:40,600 --> 00:22:45,600

And three, we needed that transition between land and water to be not too muddy.

383

00:22:45,600 --> 00:22:50,600

And amazingly, we found everything we need in this lake, in Ion, California.

384

00:22:50,600 --> 00:22:55,600

And in a few minutes, what looks like a lake may end up in fact being a motocross course.

385

00:22:56,600 --> 00:23:03,600

But before Jamie trips the lake fantastic, they first need a rider with some serious grunt

386

00:23:03,600 --> 00:23:07,600

and some serious stunt expertise.

387

00:23:07,600 --> 00:23:09,600

Meet Eric McCrummon.

388

00:23:09,600 --> 00:23:11,600

What do you think, Eric? Are you up for it?

389

00:23:11,600 --> 00:23:12,600

Sure.

390

00:23:12,600 --> 00:23:16,600

Eric is the designated driver, but there's one last thing to clarify.

391

00:23:16,600 --> 00:23:22,600

I am currently standing in the path our motorcyclist is going to take across the water,

392

00:23:22,600 --> 00:23:24,600

and it is 38 inches deep in the middle.

393

00:23:24,600 --> 00:23:28,600

If that motorcyclist makes it across, it rode on the water. That's official.

394

00:23:28,600 --> 00:23:32,600

Yep, it'll be official, but only if it works,

395

00:23:32,600 --> 00:23:35,600

which means it's time for the rubber to meet the reservoir.

396

00:23:35,600 --> 00:23:39,600

Well, he's all set. He's 375 feet away. You want to wave him in?

397

00:23:39,600 --> 00:23:40,600

Let's launch the beast.

398

00:23:40,600 --> 00:23:41,600

So now or never.

399

00:23:41,600 --> 00:23:42,600

Okay.

400

00:23:49,600 --> 00:23:50,600

Here he comes.

401

00:23:53,600 --> 00:23:54,600

Whoa!

402

00:23:55,600 --> 00:23:57,600

Ah, that worked!

403

00:24:01,600 --> 00:24:03,600

He totally stayed on top of the water.

404

00:24:03,600 --> 00:24:06,600

That was beautiful. He parted it like a little red sea.

405

00:24:07,600 --> 00:24:09,600

That was amazing.

406

00:24:09,600 --> 00:24:13,600

Amazing is what. Remember, the lake is over 3 feet deep,

407

00:24:13,600 --> 00:24:19,600

yet instead of sinking, Eric sailed 50 feet at 60 miles per hour.

408

00:24:20,600 --> 00:24:23,600

But now, Adam and Jamie want more.

409

00:24:23,600 --> 00:24:25,600

You feel like you could go a little longer?

410

00:24:25,600 --> 00:24:26,600

I think so.

411

00:24:26,600 --> 00:24:27,600

Excellent.

412

00:24:27,600 --> 00:24:30,600

I have to say, I'm really pleased about this so far.

413

00:24:30,600 --> 00:24:34,600

Eric successfully just crossed 50 feet of open water,

414

00:24:34,600 --> 00:24:36,600

not fake water would land underneath,

415

00:24:36,600 --> 00:24:39,600

but deep open water, 50 feet on a motorcycle.

416

00:24:39,600 --> 00:24:41,600

So now we're going to cross 100 feet.

417

00:24:41,600 --> 00:24:44,600

He's going to go for 100 foot length of water,

418

00:24:44,600 --> 00:24:46,600

and we're just going to see how far we can get.

419

00:24:46,600 --> 00:24:48,600

Yep, they're doubling down on the dirt bike,

420

00:24:48,600 --> 00:24:51,600

but will Eric make it to the other side this time?

421

00:24:51,600 --> 00:24:53,600

I'm excited, 100 feet.

422

00:24:53,600 --> 00:24:55,600

It's time to put our money where our mouth is.

423

00:24:55,600 --> 00:24:56,600

Let's do it.

424

00:24:58,600 --> 00:25:01,600

The pressure is on as Eric revs the bike,

425

00:25:02,600 --> 00:25:05,600

gets it up to 60 miles per hour,

426

00:25:06,600 --> 00:25:08,600

and...

427

00:25:08,600 --> 00:25:11,600

Wow! Yeah!

428

00:25:11,600 --> 00:25:14,600

Leads the lake in his wake.

429

00:25:15,600 --> 00:25:16,600

He was on top of the water.

430

00:25:16,600 --> 00:25:17,600

He was totally, he was actually,

431

00:25:17,600 --> 00:25:19,600

I saw him do this on top of the water.

432

00:25:19,600 --> 00:25:21,600

That was beautiful.

433

00:25:22,600 --> 00:25:25,600

It's clear from what we're seeing when this bike goes across the water,

434

00:25:25,600 --> 00:25:27,600

it's riding on the water,

435

00:25:27,600 --> 00:25:29,600

because we can see the wheel is bouncing.

436

00:25:29,600 --> 00:25:33,600

It's just like it was when we were on the speedboat doing our bench test.

437

00:25:33,600 --> 00:25:36,600

That means that it's hitting the water and rebounding off of it.

438

00:25:36,600 --> 00:25:38,600

It means that we're riding on water.

439

00:25:38,600 --> 00:25:41,600

And that means this myth is well and truly confirmed,

440

00:25:41,600 --> 00:25:44,600

but it's not the end of the road yet.

441

00:25:44,600 --> 00:25:48,600

Dude, I believe we have proven that you can ride a motorcycle across the water.

442

00:25:48,600 --> 00:25:51,600

I think we have, but you know I have a question.

443

00:25:51,600 --> 00:25:52,600

What's that?

444

00:25:52,600 --> 00:25:56,600

Is what is happening there actually due to his momentum,

445

00:25:56,600 --> 00:25:58,600

like skipping a stone across water,

446

00:25:58,600 --> 00:26:02,600

or is a bike this powerful, capable of actually going out like the water?

447

00:26:03,600 --> 00:26:07,600

Water crafting, continuing to power its way across the top of the water.

448

00:26:07,600 --> 00:26:09,600

That is a good question.

449

00:26:09,600 --> 00:26:11,600

I want to try it.

450

00:26:13,600 --> 00:26:14,600

Okay.

451

00:26:19,600 --> 00:26:23,600

Pulling the cords on peculiar parachutes is not new,

452

00:26:23,600 --> 00:26:28,600

but could you source a successful shoot from your hotel room?

453

00:26:29,600 --> 00:26:32,600

After a free fall, free for all,

454

00:26:34,600 --> 00:26:35,600

maybe not.

455

00:26:35,600 --> 00:26:37,600

Buster did not survive any of these drops.

456

00:26:37,600 --> 00:26:42,600

So now they want to know if anything in a hotel room could let you down safely.

457

00:26:42,600 --> 00:26:46,600

Since our do-it-yourself parachutes didn't quite give us the results we wanted,

458

00:26:46,600 --> 00:26:48,600

we've come back to the shop to do some small-scale experiments.

459

00:26:48,600 --> 00:26:51,600

We're going to test every fabric you might find in a hotel room.

460

00:26:52,600 --> 00:26:55,600

I'm going to make small parachutes, put them on top of a big industrial fan,

461

00:26:55,600 --> 00:26:59,600

blow it upwards, and see which parachute is actually going to yield the best results.

462

00:26:59,600 --> 00:27:03,600

Our benchmark for this test will be real parachute material.

463

00:27:03,600 --> 00:27:08,600

In the end, what we're looking for is the material that best matches a parachute's law and weight.

464

00:27:08,600 --> 00:27:11,600

Oh yeah, and something that can also be found in a hotel room.

465

00:27:11,600 --> 00:27:13,600

Now, instead of having our parachute falling down,

466

00:27:13,600 --> 00:27:17,600

we're going to have it stationary and have the fan blow air up into the chute,

467

00:27:17,600 --> 00:27:20,600

acting as if the parachuter were falling.

468

00:27:20,600 --> 00:27:23,600

And then we're going to find out which material has the best wind resistance

469

00:27:23,600 --> 00:27:26,600

so we can see which material makes the best parachute.

470

00:27:26,600 --> 00:27:31,600

Yep, it's all about the fabric with the most air resistance, or loft.

471

00:27:31,600 --> 00:27:35,600

So with a force meter attached, they fire up the fan for the control.

472

00:27:35,600 --> 00:27:37,600

The real parachute.

473

00:27:39,600 --> 00:27:41,600

Alright, it looks good and stable.

474

00:27:41,600 --> 00:27:44,600

1.79 for the control.

475

00:27:44,600 --> 00:27:46,600

So that's our ideal performance.

476

00:27:46,600 --> 00:27:52,600

1.79 is the lift to beat, and the first makeshift chute is the shower curtain.

477

00:27:52,600 --> 00:27:57,600

We're at 1.86. This has better wind resistance than the parachute material.

478

00:27:57,600 --> 00:28:00,600

Then they try the blackout curtain.

479

00:28:00,600 --> 00:28:02,600

2.0.

480

00:28:02,600 --> 00:28:05,600

2 pounds, that is our best performer so far.

481

00:28:05,600 --> 00:28:07,600

And finally, the remaining swatches.

482

00:28:07,600 --> 00:28:11,600

Okay, we've settled at 1.37 for the polyester drink.

483

00:28:11,600 --> 00:28:14,600

Alright, 1.67 for the cotton sheet.

484

00:28:14,600 --> 00:28:15,600

Next!

485

00:28:15,600 --> 00:28:17,600

Okay, looks like we've got 1.65.

486

00:28:17,600 --> 00:28:20,600

Cam is curtain pretty good as a parachute.

487

00:28:20,600 --> 00:28:25,600

That's 5 pocket parachutes and 5 impressive lift results.

488

00:28:25,600 --> 00:28:27,600

But that's not all they're looking for.

489

00:28:27,600 --> 00:28:29,600

We have a winner, the blackout curtain.

490

00:28:29,600 --> 00:28:32,600

It was the most air resistant and gave us 2 pounds of pulling force.

491

00:28:32,600 --> 00:28:34,600

However, the problem here is it's heavy.

492

00:28:34,600 --> 00:28:37,600

So what I need to do is weigh each of these parachute materials

493

00:28:37,600 --> 00:28:42,600

and see which one is the lightest and has similar air resistance to our parachute material.

494

00:28:44,600 --> 00:28:46,600

Ripstop nylon, 2.5 ounces.

495

00:28:47,600 --> 00:28:49,600

Shower curtain, 3.55 ounces.

496

00:28:51,600 --> 00:28:53,600

Polyester drape, 9.9 ounces.

497

00:28:55,600 --> 00:28:57,600

Cotton sheet, 3.65 ounces.

498

00:28:58,600 --> 00:29:00,600

Blackout curtain, 8.35 ounces.

499

00:29:02,600 --> 00:29:04,600

Canvas, 7.95 ounces.

500

00:29:05,600 --> 00:29:07,600

So it turns out the winner is, shower curtain.

501

00:29:07,600 --> 00:29:10,600

This is where we're going to build our final parachute out of.

502

00:29:10,600 --> 00:29:15,600

So while the blackout curtain had the most air resistance, the shower curtain was lighter.

503

00:29:15,600 --> 00:29:20,600

And that, coupled with its lift, makes it the best material for full scale.

504

00:29:20,600 --> 00:29:24,600

So we've chosen shower curtain as our final material for our parachute.

505

00:29:24,600 --> 00:29:27,600

And now that means we have to scale up.

506

00:29:27,600 --> 00:29:28,600

Here's how it goes.

507

00:29:28,600 --> 00:29:32,600

Gravity over row, 9.8 meters per second square.

508

00:29:32,600 --> 00:29:39,600

And there is 2 times the square root of a diameter equivalent to 17.4 feet.

509

00:29:39,600 --> 00:29:42,600

Now you could never get that much shower curtain out of one room.

510

00:29:42,600 --> 00:29:45,600

But if you had a whole floor, now you're talking.

511

00:29:45,600 --> 00:29:51,600

With a diameter of 17.4 feet, their shower curtain shoot is going to be giant.

512

00:29:51,600 --> 00:29:54,600

So they've opted for the classic dome design.

513

00:29:54,600 --> 00:29:59,600

But making a hemisphere out of square curtains means they need a plan.

514

00:29:59,600 --> 00:30:03,600

This is a little pattern model of what our finished parachute should actually look like.

515

00:30:03,600 --> 00:30:10,600

We're actually going to take each of these pieces and make a large pattern out of paper.

516

00:30:10,600 --> 00:30:13,600

And then construct each one out of shower curtain.

517

00:30:13,600 --> 00:30:18,600

Now it's hard to actually figure the scale until you really see the pattern laid out.

518

00:30:18,600 --> 00:30:21,600

This is going to be a huge parachute.

519

00:30:21,600 --> 00:30:26,600

It's a mammoth task of attaching 24 curtains with duct tape.

520

00:30:26,600 --> 00:30:29,600

If this duct tape doesn't hold, busters do.

521

00:30:29,600 --> 00:30:32,600

And then cutting out the six panels.

522

00:30:32,600 --> 00:30:34,600

Now we stitch them all together, right?

523

00:30:34,600 --> 00:30:35,600

Oh yeah.

524

00:30:35,600 --> 00:30:36,600

All right.

525

00:30:36,600 --> 00:30:40,600

Now after actually making our pattern, cutting it all out,

526

00:30:40,600 --> 00:30:45,600

I think our original parachutes were a lot more labor intensive and took a lot longer to put together.

527

00:30:45,600 --> 00:30:48,600

Is that all the pieces? Yeah, that's it. That's the pieces.

528

00:30:48,600 --> 00:30:49,600

So we have...

529

00:30:49,600 --> 00:30:50,600

That's it for the main shoot.

530

00:30:50,600 --> 00:30:52,600

Now to bring in the reinforcements.

531

00:30:52,600 --> 00:30:59,600

Our next job is to reinforce this hole at the top, which is actually going to bear a large amount of the load.

532

00:30:59,600 --> 00:31:03,600

With a little curtain cord taking up the slack, the last element is the lines.

533

00:31:03,600 --> 00:31:05,600

Almost done.

534

00:31:05,600 --> 00:31:07,600

That's it. Last two lines.

535

00:31:07,600 --> 00:31:12,600

And with that, it looks like this canopy caper is all stitched up.

536

00:31:14,600 --> 00:31:15,600

My work.

537

00:31:15,600 --> 00:31:18,600

A shower, curtains and duct tape. Who would have thought?

538

00:31:18,600 --> 00:31:21,600

Next stop, 30 stories high.

539

00:31:21,600 --> 00:31:22,600

Cool.

540

00:31:35,600 --> 00:31:42,600

So far in this parachute escapade, for Buster, it's been more high dive than sky dive.

541

00:31:42,600 --> 00:31:47,600

But will that change with their best case scenario, shower curtain shoot?

542

00:31:47,600 --> 00:31:49,600

Dude, this is super cool.

543

00:31:51,600 --> 00:31:56,600

We're at the Mary Island shipyard where we've been given access to a 50 ton crane.

544

00:31:56,600 --> 00:32:02,600

Now this is going to give us the ability to raise our parachute and Buster 30 stories into the air.

545

00:32:02,600 --> 00:32:08,600

We're going to drop them into this dry dock with all his accelerometers and find out if this is going to be an effective parachute.

546

00:32:08,600 --> 00:32:12,600

That's an extra 10 stories to decelerate their shower shoot.

547

00:32:14,600 --> 00:32:15,600

Shut up, buddy.

548

00:32:16,600 --> 00:32:22,600

So first they need a frame of reference at this height with the most successful shoot from their previous test.

549

00:32:23,600 --> 00:32:25,600

Alright, go ahead and take it up.

550

00:32:25,600 --> 00:32:31,600

Just like it's dropped from 20 stories, the frame buckles under Buster's weight.

551

00:32:31,600 --> 00:32:34,600

The good news is, it's doing exactly what it did last time.

552

00:32:35,600 --> 00:32:37,600

But now it has more time to decelerate.

553

00:32:37,600 --> 00:32:44,600

Okay, this is hotel parachute with the frame in 3, 2, 1.

554

00:32:45,600 --> 00:32:47,600

Welcome back.

555

00:32:47,600 --> 00:32:48,600

Hey.

556

00:32:48,600 --> 00:32:51,600

Oh, wow.

557

00:32:51,600 --> 00:32:53,600

Dang, he hit the ground hard.

558

00:32:55,600 --> 00:32:58,600

Well, let's check the data and see if he survived the fall.

559

00:32:58,600 --> 00:33:01,600

Look, I'm not a doctor, but that does not look right.

560

00:33:01,600 --> 00:33:10,600

Yep, and closer examination proves that even from 30 stories, Buster still clocked over 140 G's on his landing.

561

00:33:11,600 --> 00:33:19,600

Clearly, a one room parachute is a flop, but can a 24 room shower curtain canopy do any better?

562

00:33:19,600 --> 00:33:22,600

It's going to be a lot of wet floors with all these shower curtains missing.

563

00:33:22,600 --> 00:33:24,600

I think they're going to build it back to our room.

564

00:33:24,600 --> 00:33:30,600

This is it, the final experiment to see if you could take materials from your hotel room, make a parachute, jump out and survive.

565

00:33:30,600 --> 00:33:33,600

Now, we've taken everything we've learned from our small scale.

566

00:33:33,600 --> 00:33:39,600

We're going to use our shower curtain, we've made a dome shaped parachute, we've put a hole in the top and we have a drag chute.

567

00:33:39,600 --> 00:33:44,600

This time we're going to be dropping from 30 stories to see if Buster will actually survive.

568

00:33:44,600 --> 00:33:46,600

This is going to be so awesome.

569

00:33:46,600 --> 00:33:53,600

Now we know from our initial experiment that without a parachute, Buster's impact can get up to 500 G's and that's from 20 stories.

570

00:33:53,600 --> 00:34:01,600

The goal for today with our super final experiment shower curtain chute is to get that number down to 100 G's from 30 stories.

571

00:34:01,600 --> 00:34:06,600

The bonus is if we can get that down to 10 G's, that's a landing you can walk away from.

572

00:34:06,600 --> 00:34:10,600

The team preps the canopy and for stability adds a drag chute.

573

00:34:10,600 --> 00:34:12,600

Now I know what you're thinking, why do you guys have a drag chute? That's no fair.

574

00:34:12,600 --> 00:34:15,600

Well, actually it's my laundry bag and I travel with it all the time.

575

00:34:15,600 --> 00:34:17,600

Then the lines are attached.

576

00:34:18,600 --> 00:34:27,600

All these are 18 feet long which should give us the minimum our lines should be so that it opens to the perfect circumference and drops at the most stable rate.

577

00:34:27,600 --> 00:34:29,600

I love your optimism.

578

00:34:29,600 --> 00:34:31,600

Let's take it up.

579

00:34:31,600 --> 00:34:36,600

It's crazy but a parachute made out of shower curtains and duct tape, I think it's going to work.

580

00:34:36,600 --> 00:34:39,600

Our science and sound calculations all work out.

581

00:34:39,600 --> 00:34:42,600

It works on paper, I think Buster might actually land safely.

582

00:34:42,600 --> 00:34:49,600

Well, Buster will have to find that out the hard way or if Cary is right, the soft way.

583

00:34:49,600 --> 00:34:55,600

Suspended from 30 stories, it's time for this myth's shower curtain call.

584

00:34:55,600 --> 00:35:00,600

Alright, here we go. Shower curtain parachute in three, two, one.

585

00:35:00,600 --> 00:35:02,600

Come on.

586

00:35:02,600 --> 00:35:04,600

Open.

587

00:35:08,600 --> 00:35:10,600

Do you think it might have worked?

588

00:35:10,600 --> 00:35:14,600

Did you see how light he landed? Let's go check the data.

589

00:35:14,600 --> 00:35:24,600

Initially, Buster was on a crash course but meters from the ground amazingly the shower curtains opened and gently slowed his drop.

590

00:35:24,600 --> 00:35:27,600

The question now is, did he survive?

591

00:35:27,600 --> 00:35:29,600

Am I seeing what I'm seeing?

592

00:35:29,600 --> 00:35:31,600

Yeah, that's the peak right there.

593

00:35:31,600 --> 00:35:34,600

Four Gs, he survived the landing without injury.

594

00:35:34,600 --> 00:35:36,600

That's so cool.

595

00:35:36,600 --> 00:35:44,600

Our parachute worked and the best part is Buster received 4.2 Gs, which means not only did he survive, he survived without injury.

596

00:35:44,600 --> 00:35:54,600

However, the problem here is he had way more shower curtains than the criminal would have had, way more time to build it and the criminal didn't have the engineering that we used to make this.

597

00:35:54,600 --> 00:35:57,600

So, even though Buster isn't busted, this myth is.

598

00:35:57,600 --> 00:36:00,600

Next we hook this up to the ironing board and go kite surfing.

599

00:36:00,600 --> 00:36:02,600

Come on.

600

00:36:02,600 --> 00:36:05,600

I can't pull, it's too strong.

601

00:36:07,600 --> 00:36:13,600

After the break, Jamie puts his life on the line.

602

00:36:13,600 --> 00:36:15,600

Here he comes.

603

00:36:15,600 --> 00:36:18,600

But can he motor cross over 4,000 feet of water?

604

00:36:18,600 --> 00:36:20,600

Whoa!

605

00:36:22,600 --> 00:36:27,600

Obviously, if you're going to ride a motorcycle on water, weight is a huge issue as is power.

606

00:36:27,600 --> 00:36:40,600

I'm not sure why I've chosen this particular motorcycle because it's made by a company in Indiana called Service Power Sports and what they do is they take a lightweight aluminum chassis that normally only has a 250 cc engine on it.

607

00:36:40,600 --> 00:36:51,600

Instead, they put a 500 cc high performance two cycle motor on it and that makes it power for pound about as good as you can get in a dirt bike.

608

00:36:51,600 --> 00:36:53,600

It's a rocket.

609

00:36:57,600 --> 00:36:58,600

Welcome back.

610

00:36:58,600 --> 00:37:03,600

All episode long, we have been testing a story that a motorcycle might just be a viable water vehicle.

611

00:37:03,600 --> 00:37:04,600

Seriously.

612

00:37:04,600 --> 00:37:05,600

Whoa!

613

00:37:05,600 --> 00:37:14,600

And with a motorcycle wheel strapped to the outside of a high powered speedboat going 70 miles an hour, it really seemed like there might be something to this story.

614

00:37:14,600 --> 00:37:15,600

Yeah!

615

00:37:15,600 --> 00:37:23,600

So then we got a professional motocross rider and we gave him 100 feet of open water to cross and he was able to do it.

616

00:37:23,600 --> 00:37:25,600

Wow!

617

00:37:26,600 --> 00:37:27,600

Yeah!

618

00:37:27,600 --> 00:37:29,600

But now Mr. Heineman has a brand new question.

619

00:37:29,600 --> 00:37:38,600

Is the motorcycle skipping across the water on its own momentum or does it have enough power to continue indefinitely and Jamie wants to try it?

620

00:37:38,600 --> 00:37:39,600

Yep.

621

00:37:39,600 --> 00:37:43,600

While Eric crossed a mere 100 feet, Jamie wants more.

622

00:37:43,600 --> 00:37:45,600

It's a nice flat run.

623

00:37:45,600 --> 00:37:51,600

He wants to see if the bike can get such a grip on the water that he can speed across the entire lake.

624

00:37:52,600 --> 00:37:59,600

To do so, he'll literally be putting his life on the line, but not without some modifications.

625

00:38:01,600 --> 00:38:07,600

First, the run up to the water needs to be smoother to let Jamie really let rip.

626

00:38:07,600 --> 00:38:09,600

I think that ought to do it.

627

00:38:09,600 --> 00:38:14,600

Then the bike needs a floatation device so it doesn't drag him to the bottom if he fails.

628

00:38:14,600 --> 00:38:18,600

I believe I've got enough floatation here to make it float.

629

00:38:18,600 --> 00:38:20,600

Maybe.

630

00:38:20,600 --> 00:38:24,600

And finally, a lifeguard team is on standby.

631

00:38:26,600 --> 00:38:33,600

This is where it's all about to happen, but what exactly is going to happen here to transition between land and water?

632

00:38:33,600 --> 00:38:39,600

By the time Jamie reaches this point, he should be going between 55 and 75 miles per hour when he enters the water.

633

00:38:39,600 --> 00:38:45,600

Could he just skip all the way across the water to the opposite side of the lake about three quarters of a mile away?

634

00:38:45,600 --> 00:38:53,600

Or could he plant himself right here and just start flying and become his own cautionary Discovery Channel documentary about what not to do?

635

00:38:54,600 --> 00:38:58,600

It's one of the most dangerous experiments in Mythbusters history.

636

00:39:02,600 --> 00:39:03,600

Here he comes.

637

00:39:07,600 --> 00:39:10,600

At great next speed, Jamie hits the water and then...

638

00:39:12,600 --> 00:39:14,600

...is man over bike.

639

00:39:15,600 --> 00:39:16,600

Let's go over to him.

640

00:39:16,600 --> 00:39:18,600

Adam and the medic team rush in.

641

00:39:20,600 --> 00:39:21,600

He's good.

642

00:39:21,600 --> 00:39:26,600

But it'll take more than a 70-mile-an-hour high dive to hurt the Heinemann.

643

00:39:26,600 --> 00:39:27,600

You all right, sir?

644

00:39:28,600 --> 00:39:29,600

I'm just fine.

645

00:39:30,600 --> 00:39:35,600

I think it did a little bit of a...what is it, a half gain or something?

646

00:39:38,600 --> 00:39:40,600

Definitely no broken bones or anything, so...

647

00:39:40,600 --> 00:39:41,600

Good.

648

00:39:41,600 --> 00:39:44,600

The good news is that Jamie's fighting fit.

649

00:39:44,600 --> 00:39:49,600

The bad news is that he traveled only 80 feet, far less than Eric's effort.

650

00:39:49,600 --> 00:39:50,600

So what went wrong?

651

00:39:50,600 --> 00:39:53,600

There's one of those cases where if it ain't broke, don't fix it.

652

00:39:53,600 --> 00:39:58,600

We added this foam just so that we could retrieve the bike without drowning it afterwards.

653

00:39:58,600 --> 00:40:10,600

But it turned out that the spray coming up off of the wheel was providing a certain amount of lift

back here, which in turn made more stress on the front wheel, which made it plunge and made me do a somersault.

654

00:40:10,600 --> 00:40:13,600

So I'm going to go back to the original type of bike.

655

00:40:13,600 --> 00:40:18,600

We have a second one and have another try.

656

00:40:19,600 --> 00:40:21,600

You heard that right.

657

00:40:21,600 --> 00:40:23,600

Jamie's getting straight back on the horse.

658

00:40:23,600 --> 00:40:24,600

Power.

659

00:40:24,600 --> 00:40:28,600

And what's more, this time he's upping the speed to 80.

660

00:40:30,600 --> 00:40:34,600

But will that allow him to burn Aqua all the way across?

661

00:40:40,600 --> 00:40:41,600

Oh!

662

00:40:44,600 --> 00:40:45,600

He's good!

663

00:40:45,600 --> 00:40:46,600

Beautiful!

664

00:40:47,600 --> 00:40:49,600

That was amazing.

665

00:40:49,600 --> 00:40:51,600

It seemed to go on forever.

666

00:40:51,600 --> 00:40:53,600

It's riding, riding, riding, riding.

667

00:40:53,600 --> 00:40:56,600

That's like easily 300 feet or more, buddy.

668

00:40:56,600 --> 00:40:57,600

That was amazing.

669

00:40:58,600 --> 00:40:59,600

He's a cake.

670

00:41:03,600 --> 00:41:04,600

How you feelin'?

671

00:41:05,600 --> 00:41:08,600

Relieved it's over and I'm alive.

672

00:41:10,600 --> 00:41:17,600

Incredibly, Jamie hit the water, throttled the throttle and surfed for over 300 feet.

673

00:41:17,600 --> 00:41:25,600

And while he wasn't able to get a good enough grip to carry on across, it's still myth well and truly confirmed.

674

00:41:25,600 --> 00:41:29,600

In case there's any doubt, I'm standing on the bike.

675

00:41:29,600 --> 00:41:31,600

It's in about 8 feet of water maybe.

676

00:41:31,600 --> 00:41:36,600

So I was riding on water for about 300 feet.

677

00:41:41,600 --> 00:41:46,600

So, riding a motorcycle across the water, busted, plausible or confirmed?

678

00:41:46,600 --> 00:41:47,600

Confirmed.

679

00:41:47,600 --> 00:41:49,600

Not recommended but it's confirmed.

680

00:41:49,600 --> 00:41:51,600

Yes, but only for 300 feet.

681

00:41:51,600 --> 00:41:53,600

I was hoping for further.

682

00:41:53,600 --> 00:41:55,600

I'll settle for that.

683

00:41:56,600 --> 00:41:58,600

And so will we.

684

00:41:58,600 --> 00:42:02,600

So why not cue the music for a motor cross water montage?

685

00:42:10,600 --> 00:42:19,600

That was amazing.