

1

00:00:00,000 --> 00:00:04,800

On this episode of Myth Busters,

2

00:00:04,800 --> 00:00:06,000

I'm about to drop an elevator.

3

00:00:06,000 --> 00:00:07,400

I'm beside myself.

4

00:00:07,400 --> 00:00:11,200

Going down in the elevator of death.

5

00:00:11,200 --> 00:00:12,500

92 feet.

6

00:00:12,500 --> 00:00:14,900

If something goes wrong, somebody can get killed here.

7

00:00:14,900 --> 00:00:18,800

Can a well-timed leap of faith save your skin?

8

00:00:18,800 --> 00:00:24,400

And the myth of homemade flight.

9

00:00:25,400 --> 00:00:30,900

Jamie and Adam take wing in a levitation machine build-off.

10

00:00:30,900 --> 00:00:33,400

How did I know Adam was gonna cheat?

11

00:00:33,400 --> 00:00:36,400

Come on!

12

00:00:37,400 --> 00:00:39,900

Who are the Myth Busters?

13

00:00:39,900 --> 00:00:41,400

Adam Savage.

14

00:00:41,400 --> 00:00:44,400

I reject your reality and substitute my own.

15

00:00:44,400 --> 00:00:45,900

And Jamie Heinemann.

16

00:00:45,900 --> 00:00:47,900

I kind of like it in here, it's private.

17

00:00:47,900 --> 00:00:52,400

Between them, more than 30 years special effects experience.

18

00:00:52,400 --> 00:00:54,200

Anything to say to the ducks back home?

19

00:00:54,200 --> 00:00:58,200

They don't just tell the myths.

20

00:00:58,200 --> 00:01:00,200

They put them to the test.

21

00:01:11,200 --> 00:01:14,700

Looks like we grabbed another one off the Discovery fan site this time.

22

00:01:14,700 --> 00:01:19,700

Yeah, apparently a viewer saw an ad in the back of a magazine that advertised that

23

00:01:19,700 --> 00:01:23,700

you could build a levitation machine using three vacuum cleaner motors

24

00:01:23,700 --> 00:01:25,700

and it would lift 150 pounds.

25

00:01:25,700 --> 00:01:27,200

Levitation machine.

26

00:01:27,200 --> 00:01:28,700

The levitation machine.

27

00:01:28,700 --> 00:01:32,700

The Myth Busters have dug one up from the good old days

28

00:01:32,700 --> 00:01:35,700

when a Buck 50 bought you X-ray vision.

29

00:01:35,700 --> 00:01:38,700

Rubber vomit was 99 cents.

30

00:01:38,700 --> 00:01:43,700

And holy cow, a hovercraft cost just \$5.50.

31

00:01:43,700 --> 00:01:47,200

This story emerged from an ad from an old magazine.

32

00:01:47,200 --> 00:01:51,700

The idea is that anybody can create what is considered to be alternative technology

33

00:01:51,700 --> 00:01:55,700

in their own home, separate from big business and from government.

34

00:01:55,700 --> 00:02:02,700

So in some dusty magazine, there are plans for a mythic, self-propelling levitation machine

35

00:02:02,700 --> 00:02:06,700

made from ordinary household items like vacuums.

36

00:02:06,700 --> 00:02:12,700

Jamie and Adam never found those plans, but that won't stop them trying to build one.

37

00:02:12,700 --> 00:02:14,700

Yeah, I think it's true. I know it's true.

38

00:02:14,700 --> 00:02:16,700

It's going to be something really fun to build.

39

00:02:16,700 --> 00:02:21,700

And I think Jamie and I can actually add something to the whole industry of vacuum cleaner levitation.

40

00:02:21,700 --> 00:02:24,700

I'm reasonably certain that this myth is not true.

41

00:02:24,700 --> 00:02:26,700

Jamie doesn't think it's true.

42

00:02:28,700 --> 00:02:29,700

Oh yeah!

43

00:02:29,700 --> 00:02:32,700

Pete Anderson is the vacuum man.

44

00:02:32,700 --> 00:02:35,700

He's been repairing these suckers for 30 years.

45

00:02:35,700 --> 00:02:40,700

I fixed 90% of the vacuums on the market and you name it, I do it.

46

00:02:40,700 --> 00:02:43,700

You know, I can take them apart and put them back together in no time.

47

00:02:43,700 --> 00:02:48,700

With such a wealth of knowledge, Pete wisely guards his secrets closely.

48

00:02:48,700 --> 00:02:51,700

So Pete, it sounds like you're rummaging around. Can we come back there?

49

00:02:51,700 --> 00:02:52,700

No.

50

00:02:52,700 --> 00:02:53,700

Please?

51

00:02:53,700 --> 00:02:54,700

No.

52

00:02:54,700 --> 00:02:56,700

Then we're coming in again.

53

00:02:56,700 --> 00:02:58,700

Then I'll have the vacuums attack you.

54

00:02:58,700 --> 00:03:05,700

Pete eventually weakens and agrees to reveal the secret of the vacuum cleaner pump.

55

00:03:05,700 --> 00:03:07,700

Adam is in heaven.

56

00:03:07,700 --> 00:03:09,700

Then it shoots it into this one here.

57

00:03:09,700 --> 00:03:10,700

Which pulls it in.

58

00:03:10,700 --> 00:03:12,700

And then it directs this air right into this baby.

59

00:03:12,700 --> 00:03:16,700

The magic of it all seems strangely lost on Jamie.

60

00:03:16,700 --> 00:03:17,700

Until...

61

00:03:17,700 --> 00:03:19,700

But, Christy, see if it works.

62

00:03:19,700 --> 00:03:20,700

Here we go.

63

00:03:22,700 --> 00:03:23,700

Oh yeah!

64

00:03:32,700 --> 00:03:33,700

Got it pumped.

65

00:03:33,700 --> 00:03:34,700

Got it pumped.

66

00:03:34,700 --> 00:03:35,700

I got fit.

67

00:03:35,700 --> 00:03:36,700

You got it stuck.

68

00:03:36,700 --> 00:03:37,700

You're bleeding.

69

00:03:37,700 --> 00:03:38,700

Am I?

70

00:03:38,700 --> 00:03:39,700

Yeah.

71

00:03:39,700 --> 00:03:41,700

That was the stupidest thing I've ever done.

72

00:03:43,700 --> 00:03:47,700

I'm gonna have to stitch your mouth shut, I think, for this.

73

00:03:47,700 --> 00:03:49,700

Yeah, you wish.

74

00:03:49,700 --> 00:03:52,700

And that was the end of Adam's television career.

75

00:03:52,700 --> 00:03:53,700

No.

76

00:03:55,700 --> 00:03:56,700

This is a show.

77

00:03:56,700 --> 00:03:59,700

It's like four minutes of science and then ten minutes of me hurting myself.

78

00:04:00,700 --> 00:04:06,700

Pete has seen a lot, but he's never seen anyone bitten by a pump before.

79

00:04:06,700 --> 00:04:10,700

This is clearly a once-in-a-lifetime opportunity.

80

00:04:10,700 --> 00:04:11,700

This is not enough.

81

00:04:11,700 --> 00:04:12,700

Come back and get some more.

82

00:04:12,700 --> 00:04:16,700

Pete sold them as many of his old junkers as they can carry.

83

00:04:16,700 --> 00:04:20,700

The Mythbusters are now officially in the levitation business.

84

00:04:20,700 --> 00:04:22,700

Do we suck or what?

85

00:04:29,700 --> 00:04:35,700

Well, the myth says that you can levitate yourself with the modus from three vacuum cleaners.

86

00:04:35,700 --> 00:04:37,700

We've got about twenty here.

87

00:04:37,700 --> 00:04:41,700

So we'll see what we can get out of three and then we'll see where we can go from there.

88

00:04:44,700 --> 00:04:49,700

And so begins the delicate job of extracting pumps.

89

00:04:56,700 --> 00:04:58,700

I'm not destructive by nature.

90

00:04:58,700 --> 00:05:05,700

If you watch the time lapse of what we just did, he was the first one to take one of his vacuum cleaners and smash it on the ground.

91

00:05:07,700 --> 00:05:09,700

I just enjoy it.

92

00:05:09,700 --> 00:05:12,700

Have you ever seen Jamie enjoy anything?

93

00:05:13,700 --> 00:05:18,700

Now the Mythbusters have to turn destruction into construction.

94

00:05:19,700 --> 00:05:21,700

Oh, that's hardcore.

95

00:05:24,700 --> 00:05:26,700

Oh, that'll never fly.

96

00:05:27,700 --> 00:05:30,700

This is going to fly inside of half an hour.

97

00:05:30,700 --> 00:05:33,700

Now, Adams rigged three engines together.

98

00:05:33,700 --> 00:05:37,700

They'll glue a bag to the base to harness the blowing power,

99

00:05:37,700 --> 00:05:40,700

cutting holes so it doesn't burst like a balloon.

100

00:05:40,700 --> 00:05:43,700

It all seems too easy.

101

00:05:43,700 --> 00:05:45,700

Oh, yeah.

102

00:05:45,700 --> 00:05:47,700

Let's try it.

103

00:05:50,700 --> 00:05:52,700

Yeah, baby.

104

00:05:52,700 --> 00:06:00,700

Oh, man, dude, that totally works.

105

00:06:02,700 --> 00:06:05,700

It's a very un-mythbusters-like moment.

106

00:06:05,700 --> 00:06:09,700

They've built an invention and nothing has gone wrong.

107

00:06:12,700 --> 00:06:14,700

Ah, that's more like it.

108

00:06:17,700 --> 00:06:19,700

You want to lie there for a minute or you want to get up?

109

00:06:23,700 --> 00:06:28,700

Adam is soon back on that horse and it seems they're riding a winner.

110

00:06:28,700 --> 00:06:30,700

Oh, I think you're going to have to hold me tighter, Jamie.

111

00:06:34,700 --> 00:06:36,700

I think we busted it.

112

00:06:36,700 --> 00:06:38,700

Well, I think that worked really well.

113

00:06:38,700 --> 00:06:45,700

Actually, I'd seen no reason that you couldn't call a hovercraft a type of levitation device.

114

00:06:45,700 --> 00:06:47,700

Yeah, I think we've definitely done something good here.

115

00:06:47,700 --> 00:06:52,700

If they wanted to quit while they were ahead, this would be a good time.

116

00:06:52,700 --> 00:06:54,700

But of course, that won't happen.

117

00:06:54,700 --> 00:07:01,700

I have gleaned a lot of information from this test, but I think I ought to keep it to myself.

118

00:07:01,700 --> 00:07:04,700

I think maybe you ought to take what you think you've learned from this test

119

00:07:04,700 --> 00:07:06,700

and I'll take what I think I've learned from this test

120

00:07:06,700 --> 00:07:10,700

and let us build our own machines and see how we can do against each other.

121

00:07:12,700 --> 00:07:14,700

I'd say that's a wonderful plan, Adam.

122

00:07:15,700 --> 00:07:18,700

The challenge is set.

123

00:07:18,700 --> 00:07:24,700

Who can build the best self-propelling levitation machine out of parts found around the home?

124

00:07:24,700 --> 00:07:32,700

It's a battle of wits and egos, but before construction starts, they'll drop in on another myth.

125

00:07:32,700 --> 00:07:36,700

It's one of the great what ifs of modern living.

126

00:07:36,700 --> 00:07:41,700

What if the elevator you're riding suddenly plummets down the shaft?

127

00:07:41,700 --> 00:07:43,700

Can you save yourself?

128

00:07:44,700 --> 00:07:47,700

The Mythbusters are about to find out.

129

00:07:56,700 --> 00:07:59,700

We're here investigating the elevator of death.

130

00:07:59,700 --> 00:08:04,700

Now the myth goes that you're in an elevator, the cables are cut or something,

131

00:08:04,700 --> 00:08:07,700

you're plummeting rapidly towards the bottom of the elevator shaft,

132

00:08:07,700 --> 00:08:12,700

and right at the very last second, you jump as hard as you can and that saves your life.

133

00:08:12,700 --> 00:08:16,700

I've been looking forward to this for a long time.

134

00:08:16,700 --> 00:08:20,700

The mythbusters need to drop an elevator down a shaft.

135

00:08:20,700 --> 00:08:24,700

Just before it hits bottom, the test subject will jump in the air.

136

00:08:24,700 --> 00:08:30,700

They'll measure his speed to see if he's avoided what seems certain death.

137

00:08:31,700 --> 00:08:34,700

First, a little expert instruction.

138

00:08:34,700 --> 00:08:37,700

That's all your control wires. This is your traveling cable.

139

00:08:37,700 --> 00:08:40,700

Lester Appel has worked on elevators for 30 years,

140

00:08:40,700 --> 00:08:43,700

and he's not falling for this myth.

141

00:08:43,700 --> 00:08:47,700

Well, if you're in an elevator, you're traveling at the same rate of speed,

142

00:08:47,700 --> 00:08:50,700

the same velocity as the elevator itself,

143

00:08:50,700 --> 00:08:54,700

so you're really not going to be able to overcome that physical fact.

144

00:08:54,700 --> 00:08:57,700

What would you do if you were in a falling elevator?

145

00:08:57,700 --> 00:09:01,700

I believe if I had presence of mind, I would probably try to lay myself down on the floor,

146

00:09:01,700 --> 00:09:05,700

assuming that I could get there just to minimize the injury to my body.

147

00:09:07,700 --> 00:09:09,700

Destruction seems assured.

148

00:09:09,700 --> 00:09:12,700

Jamie can't wait to scout a location.

149

00:09:12,700 --> 00:09:16,700

There's a fire training facility, which sounds promising in Pleasanton,

150

00:09:16,700 --> 00:09:18,700

outside San Francisco.

151

00:09:18,700 --> 00:09:23,700

This is quite a complex. They've got rooftops and whole buildings that they can burn down and put out.

152

00:09:23,700 --> 00:09:29,700

And of course, most importantly, this building has an elevator in it that drops four or five floors.

153

00:09:31,700 --> 00:09:35,700

Uh-huh, I thought so. That's only 40 feet. Okay.

154

00:09:35,700 --> 00:09:38,700

40 feet is an impressive drop.

155

00:09:39,700 --> 00:09:43,700

But for this myth, they're looking for something really special.

156

00:09:43,700 --> 00:09:49,700

Jamie's got a lead on a derelict hotel in nearby Oakland that's eight stories high.

157

00:09:49,700 --> 00:09:52,700

He's checking it out with Builder Carry.

158

00:09:55,700 --> 00:09:56,700

Is that it?

159

00:09:57,700 --> 00:10:00,700

I guess that's it. It's an eight-story building.

160

00:10:00,700 --> 00:10:02,700

Thank you, sir.

161

00:10:12,700 --> 00:10:16,700

The Grand Old Hotel Royal was built around 1910.

162

00:10:16,700 --> 00:10:20,700

She ain't so grand anymore and is scheduled for demolition.

163

00:10:20,700 --> 00:10:22,700

Oh my God.

164

00:10:22,700 --> 00:10:25,700

Since we're here anyway, can we film a horror movie?

165

00:10:25,700 --> 00:10:26,700

Yeah.

166

00:10:26,700 --> 00:10:30,700

They found the elevator, but it's not going anywhere fast.

167

00:10:30,700 --> 00:10:32,700

There's the motor.

168

00:10:32,700 --> 00:10:34,700

What's left of it?

169

00:10:36,700 --> 00:10:38,700

It's an elevator.

170

00:10:38,700 --> 00:10:39,700

Yeah.

171

00:10:40,700 --> 00:10:42,700

Yeah, that feels like steel.

172

00:10:42,700 --> 00:10:47,700

I don't know whether it'll stand up to an eight-story drop without crushing.

173

00:10:48,700 --> 00:10:51,700

Getting the elevator working will be no small task.

174

00:10:51,700 --> 00:10:56,700

The cables haven't moved in years and the motor is a wreck.

175

00:10:56,700 --> 00:11:00,700

In theory, if we could tie power onto that, we would have a working elevator.

176

00:11:00,700 --> 00:11:02,700

The cables and everything are here.

177

00:11:02,700 --> 00:11:07,700

It's a little rusty, but if we can get it to work, it's going to be perfect.

178

00:11:10,700 --> 00:11:12,700

Jerry, we're going to go on up to the top, I think.

179

00:11:12,700 --> 00:11:14,700

Don't leave me alone.

180

00:11:14,700 --> 00:11:16,700

Oh my God.

181

00:11:17,700 --> 00:11:21,700

It's a long, long way to the top of the shaft.

182

00:11:21,700 --> 00:11:24,700

Eight floors, nine counting the basement.

183

00:11:27,700 --> 00:11:30,700

92 feet to the top of the pulleys.

184

00:11:30,700 --> 00:11:33,700

92 feet to the dead bird.

185

00:11:35,700 --> 00:11:40,700

A 92-foot drop, 1,500 pounds of elevator car.

186

00:11:40,700 --> 00:11:43,700

It looks like they have their location,

187

00:11:43,700 --> 00:11:47,700

but half the mythbusters bitten off more than they can chew.

188

00:11:47,700 --> 00:11:49,700

I don't know.

189

00:11:49,700 --> 00:11:51,700

It's kind of scary.

190

00:11:54,700 --> 00:11:57,700

The Levitation Machine Challenge is a go.

191

00:11:57,700 --> 00:12:02,700

In the red corner, Team Savage, Adam, Tori and Christine.

192

00:12:02,700 --> 00:12:07,700

In the blue, Heinemann's Heroes, Jamie, Scotty and Carrie.

193

00:12:07,700 --> 00:12:12,700

Each has a budget of \$500 and two days to build a flying,

194

00:12:12,700 --> 00:12:16,700

self-propelling, Levitation Machine out of household items.

195

00:12:16,700 --> 00:12:18,700

Then they race for glory.

196

00:12:18,700 --> 00:12:23,700

The secret plans are we're going to do three pads like this.

197

00:12:23,700 --> 00:12:26,700

We're going to have a leaf blower back here.

198

00:12:26,700 --> 00:12:28,700

I got a whole bunch of them.

199

00:12:28,700 --> 00:12:30,700

So we're not using any of the vacuum motors?

200

00:12:30,700 --> 00:12:31,700

No, no, no.

201

00:12:31,700 --> 00:12:35,700

To improve stability, Adam's Craft will have three connected bases,

202

00:12:35,700 --> 00:12:37,700

like lily pads.

203

00:12:37,700 --> 00:12:40,700

He'll mount the seat and engines on top.

204

00:12:40,700 --> 00:12:45,700

And it will have a little more kick than your standard vacuum cleaner.

205

00:12:45,700 --> 00:12:49,700

180 miles per hour, 360 cubic feet per minute.

206

00:12:49,700 --> 00:12:54,700

Leaf blowers, two big, expensive ones.

207

00:12:54,700 --> 00:13:00,700

Adam's blown away his entire budget and possibly Jamie too.

208

00:13:00,700 --> 00:13:09,700

Adam's plan is for one blower to provide lift and the other propulsion.

209

00:13:09,700 --> 00:13:15,700

The question is, how to mount these puppies up so that one, there's control.

210

00:13:15,700 --> 00:13:18,700

Two, there's some aerodynamics.

211

00:13:18,700 --> 00:13:20,700

Three, there's some stability.

212

00:13:20,700 --> 00:13:22,700

Like I want to be here.

213

00:13:22,700 --> 00:13:23,700

Okay.

214

00:13:23,700 --> 00:13:27,700

Christine's come up with a new, stronger skirt to capture the air.

215

00:13:27,700 --> 00:13:28,700

Come on, Miss.

216

00:13:28,700 --> 00:13:30,700

Don't jam up on me.

217

00:13:32,700 --> 00:13:35,700

I feel like I'm doing crafts in kindergarten.

218

00:13:35,700 --> 00:13:40,700

In just two hours, Gene Savage has the first pad ready to test.

219

00:13:40,700 --> 00:13:41,700

All right.

220

00:13:41,700 --> 00:13:42,700

Ready?

221

00:13:51,700 --> 00:13:53,700

Oh my God!

222

00:13:58,700 --> 00:14:00,700

I think that's magnificent.

223

00:14:00,700 --> 00:14:06,700

I think the distance is perfect, the buoyancy is great, and it's a pretty darn stamp for just one person in the center.

224

00:14:06,700 --> 00:14:08,700

Three of these is going to be great.

225

00:14:08,700 --> 00:14:13,700

The thing is, is that this powers one beautifully, but it's got to power three.

226

00:14:13,700 --> 00:14:19,700

Adam has to split the airflow from one leaf blower to inflate all three pads.

227

00:14:19,700 --> 00:14:21,700

He'll divide the blast with pipe.

228

00:14:21,700 --> 00:14:22,700

How do you like that?

229

00:14:22,700 --> 00:14:23,700

That'll do.

230

00:14:23,700 --> 00:14:25,700

But, is there enough lift?

231

00:14:25,700 --> 00:14:29,700

Adam's design might be stable, but it's also heavy.

232

00:14:29,700 --> 00:14:33,700

There's a steel frame holding the pads together and a seat.

233

00:14:33,700 --> 00:14:35,700

Up, and right there.

234

00:14:35,700 --> 00:14:37,700

Okay, close your eyes.

235

00:14:37,700 --> 00:14:38,700

Oh, no way.

236

00:14:38,700 --> 00:14:42,700

If you weld this, you're committed to this height of the chair.

237

00:14:42,700 --> 00:14:43,700

Yeah.

238

00:14:43,700 --> 00:14:47,700

It wouldn't it be a smart idea to put a pipe the same diameter as this?

239

00:14:47,700 --> 00:14:49,700

Maybe, but you know what, I can just cut the weld.

240

00:14:49,700 --> 00:14:50,700

I can grind the weld.

241

00:14:50,700 --> 00:14:51,700

I can grind the weld.

242

00:14:51,700 --> 00:14:52,700

Place it up there.

243

00:14:52,700 --> 00:14:53,700

This is what I have to deal with.

244

00:14:53,700 --> 00:14:55,700

This is what it's like to work with me.

245

00:14:55,700 --> 00:14:56,700

We're going to get it done.

246

00:15:02,700 --> 00:15:04,700

Oh, you are good.

247

00:15:06,700 --> 00:15:07,700

Not that good.

248

00:15:07,700 --> 00:15:09,700

The seat is not adjustable.

249

00:15:09,700 --> 00:15:11,700

It's a little too low.

250

00:15:15,700 --> 00:15:17,700

See, look at all that exercise.

251

00:15:18,700 --> 00:15:19,700

All right.

252

00:15:19,700 --> 00:15:20,700

I'll still put it on his back.

253

00:15:20,700 --> 00:15:22,700

Oh, man, it's really heavy.

254

00:15:22,700 --> 00:15:25,700

But, could it be too much weight to levitate?

255

00:15:28,700 --> 00:15:31,700

The big race will be held on the beach.

256

00:15:31,700 --> 00:15:35,700

Before lifting a tool, Jamie's scouting the location.

257

00:15:35,700 --> 00:15:37,700

And, he's inspired.

258

00:15:39,700 --> 00:15:42,700

Have you ever heard of a thing called a hoverboard?

259

00:15:42,700 --> 00:15:48,700

Jamie, the non-surfer, explains to Rob the non-geek

260

00:15:48,700 --> 00:15:49,700

what he has in mind.

261

00:15:49,700 --> 00:15:52,700

So, we're looking for a large board

262

00:15:52,700 --> 00:15:55,700

that we can mount some leaf blowers on the back

263

00:15:55,700 --> 00:15:58,700

for forward thrust and one on the top in the front

264

00:15:58,700 --> 00:16:01,700

to fill the airbag that lifts the thing.

265

00:16:01,700 --> 00:16:02,700

And, we also wanted to look cool.

266

00:16:02,700 --> 00:16:03,700

Yeah.

267

00:16:03,700 --> 00:16:04,700

Okay.

268

00:16:04,700 --> 00:16:08,700

It's clear, surfer Rob doesn't share Jamie's definition of cool,

269

00:16:08,700 --> 00:16:11,700

but a sales-a-sale, dude.

270

00:16:11,700 --> 00:16:12,700

How about this one?

271

00:16:12,700 --> 00:16:13,700

Well, that's kind of hot-looking.

272

00:16:13,700 --> 00:16:16,700

It's 22 inches wide, 7'10".

273

00:16:17,700 --> 00:16:20,700

I like it.

274

00:16:20,700 --> 00:16:22,700

It's a bittersweet moment.

275

00:16:22,700 --> 00:16:25,700

Old Yalla here will never see away.

276

00:16:25,700 --> 00:16:27,700

But, Jamie couldn't be happier.

277

00:16:27,700 --> 00:16:28,700

Thank you.

278

00:16:28,700 --> 00:16:31,700

We've destroyed a lot of really nice things on this show.

279

00:16:31,700 --> 00:16:36,700

You know, Corvette's home appliances, power tools.

280

00:16:36,700 --> 00:16:39,700

And, now we're about to destroy a surfboard.

281

00:16:39,700 --> 00:16:43,700

Jamie is planning the Heinemann hoverboard.

282

00:16:43,700 --> 00:16:46,700

A surfboard blowers at the back for thrust,

283

00:16:46,700 --> 00:16:50,700

more at the front for lift, and the inflatable skirt.

284

00:16:53,700 --> 00:16:56,700

In his search for thrust, like Adam,

285

00:16:56,700 --> 00:16:58,700

Jamie has settled on leaf blowers.

286

00:16:58,700 --> 00:17:02,700

After the surfboard, he can only afford cheaper models

287

00:17:02,700 --> 00:17:04,700

and needs to check their propulsion power.

288

00:17:04,700 --> 00:17:06,700

It's exciting.

289

00:17:06,700 --> 00:17:09,700

That ought to work.

290

00:17:09,700 --> 00:17:11,700

So, let's fuel it up.

291

00:17:11,700 --> 00:17:14,700

This is easier than I thought.

292

00:17:20,700 --> 00:17:24,700

This kind of looks like Wally Coyote or something, doesn't it?

293

00:17:28,700 --> 00:17:32,700

This is officially the silliest rig in myth-busting history.

294

00:17:32,700 --> 00:17:36,700

It's taught them immediately that combining inline skates

295

00:17:36,700 --> 00:17:40,700

and a backpack makes Jamie Giggle like a schoolgirl.

296

00:17:42,700 --> 00:17:47,700

The second lesson, this simple rig actually works.

297

00:17:57,700 --> 00:18:00,700

It's not fast, and it's not pretty,

298

00:18:00,700 --> 00:18:05,700

but it might just be impressive enough to scare team Savage.

299

00:18:12,700 --> 00:18:16,700

Well, you know, I'm glad he's not wasting his time or anything.

300

00:18:16,700 --> 00:18:19,700

I've got a nearly completed hovercraft in there.

301

00:18:19,700 --> 00:18:21,700

Jamie's cruising with the girls.

302

00:18:21,700 --> 00:18:23,700

Look, look, look, he's cruising with women.

303

00:18:23,700 --> 00:18:25,700

That's all he's doing.

304

00:18:25,700 --> 00:18:28,700

I don't have a damn thing to worry about.

305

00:18:28,700 --> 00:18:30,700

His silly little backpack thing?

306

00:18:30,700 --> 00:18:32,700

He's like the hunchback of M5.

307

00:18:32,700 --> 00:18:34,700

Jamie's team's already lost.

308

00:18:34,700 --> 00:18:36,700

They just haven't been informed yet.

309

00:18:36,700 --> 00:18:40,700

To Adam's mind, propulsion will be a breeze.

310

00:18:40,700 --> 00:18:43,700

Basically, I would be holding onto this thing, pointing it behind me.

311

00:18:43,700 --> 00:18:45,700

When I need to turn, I just turn it this way.

312

00:18:45,700 --> 00:18:46,700

I turn it that way.

313

00:18:46,700 --> 00:18:48,700

It's really simple.

314

00:18:48,700 --> 00:18:53,700

Of course, the lily pad flyer is still heavy and still earthbound.

315

00:18:53,700 --> 00:18:57,700

It's time to rise and shine if they can.

316

00:19:04,700 --> 00:19:06,700

It's totally stable.

317

00:19:06,700 --> 00:19:08,700

They have lift-off.

318

00:19:09,700 --> 00:19:11,700

It was actually very successful.

319

00:19:11,700 --> 00:19:12,700

I'm very pleased with it.

320

00:19:12,700 --> 00:19:15,700

Weight does not seem to be an issue with the leaf blower.

321

00:19:15,700 --> 00:19:19,700

It's got plenty of power to lift the weight we wanted to lift.

322

00:19:20,700 --> 00:19:23,700

The hard part seems over for Team Savage.

323

00:19:23,700 --> 00:19:26,700

They're levitating like David Copperfield.

324

00:19:26,700 --> 00:19:31,700

And now, just need to conjure up a little back draft to get things moving.

325

00:19:39,700 --> 00:19:46,700

In Adam's mind, right now, he should be blowing along like the first leaves of fall.

326

00:19:46,700 --> 00:19:49,700

Team Savage has a problem.

327

00:19:51,700 --> 00:19:54,700

Fresh from their successful propulsion test,

328

00:19:54,700 --> 00:19:57,700

Heinemann's heroes are working on lift.

329

00:19:57,700 --> 00:20:00,700

I'm about to be disowned by every surfer I know.

330

00:20:00,700 --> 00:20:04,700

Old Yella is going under the knife.

331

00:20:04,700 --> 00:20:06,700

This hole is for the driver.

332

00:20:07,700 --> 00:20:11,700

This hole is for the down draft that will inflate their skirt.

333

00:20:13,700 --> 00:20:15,700

Jamie, are you feeling confident?

334

00:20:15,700 --> 00:20:17,700

Not at all.

335

00:20:25,700 --> 00:20:28,700

It works. They have lift-off.

336

00:20:28,700 --> 00:20:31,700

But they also have a problem.

337

00:20:31,700 --> 00:20:35,700

It's practically impossible to keep it stable.

338

00:20:36,700 --> 00:20:40,700

It's less hoverboard than wobbleboard.

339

00:20:40,700 --> 00:20:42,700

You're going to have to have a wider base.

340

00:20:42,700 --> 00:20:46,700

That's all I can say because it's like trying to balance the board on a pole.

341

00:20:51,700 --> 00:20:56,700

Jamie has a hunch he can steady the ship by adding an outrigger.

342

00:20:56,700 --> 00:20:58,700

This is a nifty invention.

343

00:20:58,700 --> 00:21:00,700

This is actually going to work.

344

00:21:00,700 --> 00:21:03,700

I've put some additional support on the top of the bladder

345

00:21:03,700 --> 00:21:06,700

where it comes out from the side of the surfboard.

346

00:21:06,700 --> 00:21:11,700

That will keep it more stable because it can't roll around the edge of the surfboard.

347

00:21:11,700 --> 00:21:13,700

It's got to be compressed.

348

00:21:13,700 --> 00:21:18,700

It still is a little bit tippy.

349

00:21:18,700 --> 00:21:21,700

But I think when we get a little practice,

350

00:21:21,700 --> 00:21:24,700

I should be able to get nice and stabilized.

351

00:21:24,700 --> 00:21:26,700

I think we're good to go.

352

00:21:29,700 --> 00:21:31,700

The last component, thrusters.

353

00:21:31,700 --> 00:21:33,700

Times three.

354

00:21:33,700 --> 00:21:35,700

The last component, thrusters.

355

00:21:35,700 --> 00:21:37,700

The last component, thrusters.

356

00:21:37,700 --> 00:21:39,700

The last component, thrusters.

357

00:21:39,700 --> 00:21:41,700

The last component, thrusters.

358

00:21:41,700 --> 00:21:42,700

Thrusters.

359

00:21:42,700 --> 00:21:44,700

Times three.

360

00:21:45,700 --> 00:21:48,700

You know, I kept saying that you were going to come up with something,

361

00:21:48,700 --> 00:21:50,700

but in the back of my head I was going,

362

00:21:57,700 --> 00:22:00,700

Surf's up for Heinemann's Heroes.

363

00:22:00,700 --> 00:22:03,700

At the end of the first work day of the challenge,

364

00:22:03,700 --> 00:22:07,700

they have a flying, self-propelling, levitation machine.

365

00:22:12,700 --> 00:22:15,700

I don't know what the top speed on it is,

366

00:22:15,700 --> 00:22:17,700

but it was starting to take off there.

367

00:22:17,700 --> 00:22:21,700

And if we get the control set up on this,

368

00:22:21,700 --> 00:22:24,700

I think it's going to work like a dream.

369

00:22:31,700 --> 00:22:37,700

In July 1945, a terrible tragedy at the Empire State Building

370

00:22:37,700 --> 00:22:40,700

gave rise to a miraculous survival story.

371

00:22:40,700 --> 00:22:43,700

And an elevator plunged down 80 floors,

372

00:22:43,700 --> 00:22:45,700

cables and debris tumbling over it.

373

00:22:45,700 --> 00:22:47,700

It was a drop of 1,000 feet,

374

00:22:47,700 --> 00:22:50,700

and inside, a young elevator operator.

375

00:22:50,700 --> 00:22:55,700

She was found alive in the basement by a heroic Coast Guardsman.

376

00:22:55,700 --> 00:22:58,700

A girl on the side was badly crushed and burned.

377

00:22:58,700 --> 00:23:03,700

I got her out, gave her morphine and treated wounds as best I knew how.

378

00:23:03,700 --> 00:23:06,700

But how did she survive that crash?

379

00:23:06,700 --> 00:23:08,700

Did she jump up?

380

00:23:08,700 --> 00:23:13,700

It's something for the mythbusters to ponder back at the hotel royal.

381

00:23:14,700 --> 00:23:16,700

Found a bowling ball in the abandoned building.

382

00:23:16,700 --> 00:23:19,700

I've always wanted to drop one of these on a tile floor.

383

00:23:22,700 --> 00:23:26,700

Man, I thought I was going to shatter and break into all sorts of dramatic things.

384

00:23:26,700 --> 00:23:28,700

Myth busted.

385

00:23:28,700 --> 00:23:30,700

Well, that wasn't much fun.

386

00:23:33,700 --> 00:23:34,700

Yeah!

387

00:23:35,700 --> 00:23:37,700

We've got the location.

388

00:23:37,700 --> 00:23:39,700

We've got our elevator shaft.

389

00:23:39,700 --> 00:23:41,700

I'm going to go out and get all the rigging equipment that I need

390

00:23:41,700 --> 00:23:43,700

so that we can pull it to the top and drop it.

391

00:23:43,700 --> 00:23:47,700

You've got the hard job of getting Buster to jump at the last second.

392

00:23:47,700 --> 00:23:51,700

This experiment has two engineering challenges.

393

00:23:51,700 --> 00:23:55,700

First, to figure out a way to raise and drop the elevator.

394

00:23:55,700 --> 00:24:00,700

Second, to rig the victim to jump up at just the right moment.

395

00:24:00,700 --> 00:24:05,700

Jamie, Carrie and Scotty are dissecting the human jump.

396

00:24:05,700 --> 00:24:06,700

Alright.

397

00:24:10,700 --> 00:24:14,700

In the short moment of acceleration, the average top speed generated

398

00:24:14,700 --> 00:24:17,700

was just over 8 feet per second.

399

00:24:17,700 --> 00:24:21,700

Now, they need the victim to replicate that.

400

00:24:21,700 --> 00:24:24,700

And here's the victim now.

401

00:24:24,700 --> 00:24:27,700

I need to figure out how to make Buster jump.

402

00:24:27,700 --> 00:24:29,700

I think I'm going to have to use some kind of spring

403

00:24:29,700 --> 00:24:32,700

because I don't want to go for the gunpowder.

404

00:24:33,700 --> 00:24:36,700

No gunpowder. Good news for Buster.

405

00:24:36,700 --> 00:24:40,700

Instead, a kind of turbo-charged Pogo stick.

406

00:24:40,700 --> 00:24:45,700

A car spring inside overlapping tubes with a quick release catch.

407

00:24:45,700 --> 00:24:48,700

They'll rig Buster to sit on top.

408

00:24:50,700 --> 00:24:53,700

Scotty's specialty is working with metal.

409

00:24:56,700 --> 00:25:00,700

So in no time, she's created Buster's launcher.

410

00:25:01,700 --> 00:25:06,700

Giant industrial Pogo stick. Nice.

411

00:25:06,700 --> 00:25:09,700

The spring is tensioned.

412

00:25:09,700 --> 00:25:11,700

And the quick release set.

413

00:25:11,700 --> 00:25:12,700

There you go.

414

00:25:12,700 --> 00:25:16,700

Then, Buster is lowered into place.

415

00:25:16,700 --> 00:25:19,700

Now, that looks like a good jump to me.

416

00:25:19,700 --> 00:25:21,700

I'm not sure, but I think we have a pretty good shot

417

00:25:21,700 --> 00:25:24,700

at actually launching Buster up in the air pretty good.

418

00:25:24,700 --> 00:25:26,700

It's a powerful spring.

419

00:25:26,700 --> 00:25:28,700

It's time for Buster to fly.

420

00:25:28,700 --> 00:25:30,700

Okay, here we go.

421

00:25:34,700 --> 00:25:37,700

Well, that wasn't very much at all.

422

00:25:37,700 --> 00:25:38,700

Okay.

423

00:25:40,700 --> 00:25:43,700

Attempt one was more a jiggle than a jump.

424

00:25:48,700 --> 00:25:50,700

What can I say? I've got to keep tweaking.

425

00:25:52,700 --> 00:25:55,700

Adam, meanwhile, is looking for rigging.

426

00:25:55,700 --> 00:25:59,700

Asking all kinds of questions salesmen don't hear too often.

427

00:25:59,700 --> 00:26:04,700

I need to cut these cables and attach basically this quick release

428

00:26:04,700 --> 00:26:08,700

between the cables and my elevator so I can then drop the elevator.

429

00:26:08,700 --> 00:26:10,700

What would you recommend?

430

00:26:10,700 --> 00:26:12,700

A career change, perhaps.

431

00:26:12,700 --> 00:26:17,700

But failing that, rigging salesman George Wong settles for cables and ties

432

00:26:17,700 --> 00:26:19,700

and double strength doohickeys.

433

00:26:19,700 --> 00:26:20,700

Okay.

434

00:26:20,700 --> 00:26:21,700

Are you going to blow me up next?

435

00:26:21,700 --> 00:26:23,700

No, I was dropping an elevator today.

436

00:26:23,700 --> 00:26:24,700

How are you feeling?

437

00:26:24,700 --> 00:26:25,700

Yeah.

438

00:26:25,700 --> 00:26:29,700

The whole experiment and the MythBuster's safety will literally

439

00:26:29,700 --> 00:26:31,700

hang from this quick release shackle.

440

00:26:31,700 --> 00:26:34,700

Everything has to be right.

441

00:26:34,700 --> 00:26:35,700

That'll do it.

442

00:26:35,700 --> 00:26:36,700

That's perfect.

443

00:26:41,700 --> 00:26:43,700

To reduce the PogoSticks weight,

444

00:26:43,700 --> 00:26:47,700

Scottie's cutting out as much of the heavy metal cylinder as possible.

445

00:26:47,700 --> 00:26:51,700

She's adding a second spring for extra power.

446

00:26:51,700 --> 00:26:56,700

And smearing the whole assembly with lard to cut friction.

447

00:26:56,700 --> 00:27:00,700

It tastes like French fries.

448

00:27:00,700 --> 00:27:03,700

It's like about a half pound of lard on there.

449

00:27:03,700 --> 00:27:07,700

When we have a giant box of lard, it's just so darn tempting.

450

00:27:07,700 --> 00:27:09,700

Are we ready?

451

00:27:14,700 --> 00:27:15,700

Face plant!

452

00:27:15,700 --> 00:27:17,700

About 20 centimeters.

453

00:27:17,700 --> 00:27:21,700

It's better, but still not near enough to a human jump.

454

00:27:21,700 --> 00:27:23,700

About, I'll say about here.

455

00:27:23,700 --> 00:27:27,700

Well, one thing that I can see is that we want to get her of gravity

456

00:27:27,700 --> 00:27:30,700

kind of directly above the spring a little bit.

457

00:27:30,700 --> 00:27:34,700

Balance is one thing, but the real problem is power.

458

00:27:34,700 --> 00:27:39,700

Buster needs more spring in his step.

459

00:27:39,700 --> 00:27:45,700

If that spring is going to turn up anywhere, it'll be here, somewhere.

460

00:27:45,700 --> 00:27:49,700

Looks like that would definitely fit in there.

461

00:27:49,700 --> 00:27:53,700

I probably have a pair of ice grips if you need them.

462

00:27:57,700 --> 00:27:59,700

There we go.

463

00:28:03,700 --> 00:28:06,700

Well, that looks pretty perfect to me.

464

00:28:06,700 --> 00:28:08,700

You like it?

465

00:28:08,700 --> 00:28:10,700

I love it.

466

00:28:10,700 --> 00:28:12,700

Did I do something good today?

467

00:28:12,700 --> 00:28:15,700

You did great. Thank you. Good catch.

468

00:28:15,700 --> 00:28:16,700

Oh, yeah.

469

00:28:16,700 --> 00:28:18,700

Just this.

470

00:28:21,700 --> 00:28:25,700

Buster may at last be ready for his great leap forward.

471

00:28:25,700 --> 00:28:27,700

All right.

472

00:28:30,700 --> 00:28:32,700

Well, that was a good jump.

473

00:28:33,700 --> 00:28:35,700

Spirits are soaring.

474

00:28:35,700 --> 00:28:40,700

Buster reached a maximum velocity of nearly 12.5 feet per second

475

00:28:40,700 --> 00:28:43,700

compared to Jamie's 8 feet per second.

476

00:28:43,700 --> 00:28:46,700

I think that's a good run. I think we're there.

477

00:28:46,700 --> 00:28:49,700

That was significantly more than what we got before.

478

00:28:49,700 --> 00:28:51,700

He looked like he jumped.

479

00:28:51,700 --> 00:28:54,700

They've solved half the elevator of death problem.

480

00:28:54,700 --> 00:28:59,700

Getting the hotel royals elevator working again lies ahead.

481

00:28:59,700 --> 00:29:02,700

Bye-bye. See you later.

482

00:29:02,700 --> 00:29:06,700

But first, there's a little matter of a levitation machine build-off.

483

00:29:06,700 --> 00:29:09,700

You can come on in and shoot, but you three have to go away.

484

00:29:09,700 --> 00:29:11,700

We would change our plans after seeing yours.

485

00:29:11,700 --> 00:29:13,700

She just wanted to go away.

486

00:29:13,700 --> 00:29:16,700

She talks so much trash.

487

00:29:16,700 --> 00:29:20,700

Team Savage needs to keep the lily pad flyer under wraps.

488

00:29:20,700 --> 00:29:23,700

It's showing all the mobility of a 2x4.

489

00:29:23,700 --> 00:29:26,700

Today's task is to work on the propulsion of the hovercraft.

490

00:29:26,700 --> 00:29:30,700

You're going to start working on the pads, and I'm going to start working on the fan blades.

491

00:29:30,700 --> 00:29:36,700

After laughing at Jamie's propulsion fixation, Adam needs to get his craft moving.

492

00:29:36,700 --> 00:29:38,700

And fast.

493

00:29:38,700 --> 00:29:40,700

That's it. That's all that's moving the f***ing air.

494

00:29:40,700 --> 00:29:43,700

His leaf blower needs more bite.

495

00:29:43,700 --> 00:29:46,700

Something like this.

496

00:29:46,700 --> 00:29:49,700

The fan will sit inside a metal shroud.

497

00:29:49,700 --> 00:29:52,700

It's blast directed by rudders at the back.

498

00:29:52,700 --> 00:29:55,700

That's not dangerous.

499

00:29:55,700 --> 00:29:57,700

Oh my God.

500

00:29:57,700 --> 00:30:01,700

It's fair to say this is not strictly design intent for a leaf blower.

501

00:30:01,700 --> 00:30:04,700

Adam's created a monster.

502

00:30:04,700 --> 00:30:07,700

Or is it just a monster problem?

503

00:30:09,700 --> 00:30:11,700

Oh.

504

00:30:11,700 --> 00:30:14,700

No, no.

505

00:30:17,700 --> 00:30:19,700

That sounds bad.

506

00:30:19,700 --> 00:30:22,700

It's just too much torque for this motor.

507

00:30:22,700 --> 00:30:25,700

Please don't be too much torque for this motor.

508

00:30:25,700 --> 00:30:27,700

It's too much torque.

509

00:30:27,700 --> 00:30:31,700

The tiny motor can't turn that big fan.

510

00:30:31,700 --> 00:30:35,700

I'm scrapping this leaf blower motor.

511

00:30:35,700 --> 00:30:38,700

I'm going to stop trying to repair it and go for something like a chainsaw motor

512

00:30:38,700 --> 00:30:41,700

or a low grade secondhand lawnmower motor.

513

00:30:41,700 --> 00:30:47,700

A stickler might point out Adam's already spent his \$500.

514

00:30:47,700 --> 00:30:51,700

Granted, I might have spent over \$500 trying to get this to work,

515

00:30:51,700 --> 00:30:57,700

but in the end, the full parts list for our hovercraft will still be under \$500.

516

00:30:57,700 --> 00:31:00,700

How did I know Adam was kind of cheap?

517

00:31:00,700 --> 00:31:04,700

News of Adam's indiscretion has reached Heinemann's heroes.

518

00:31:04,700 --> 00:31:09,700

I think we can count on the fact that Adam's handicapped is probably Adam.

519

00:31:09,700 --> 00:31:13,700

And just because it gets the lawnmower doesn't mean he's actually going to make it work.

520

00:31:13,700 --> 00:31:16,700

If Jamie's mad, he's not telling.

521

00:31:16,700 --> 00:31:22,700

You have the wrong show if you want to see backbiting and sniping.

522

00:31:22,700 --> 00:31:27,700

On misbusters, we actually cooperate and enjoy working with each other.

523

00:31:27,700 --> 00:31:33,700

For Heinemann's heroes, it would be all too easy to abandon the high road

524

00:31:33,700 --> 00:31:36,700

and stoop to cheating themselves.

525

00:31:36,700 --> 00:31:39,700

So that's exactly what they do.

526

00:31:39,700 --> 00:31:42,700

Quicker than you can say, dastardly scoundrel.

527

00:31:42,700 --> 00:31:46,700

They've bought and fitted another blower to help with lift.

528

00:31:46,700 --> 00:31:50,700

Now, if this works the way I plan, the extra lift that we're getting from the extra leaf blower

529

00:31:50,700 --> 00:31:56,700

will actually also make the thrust from the three leaf blowers more effective.

530

00:31:56,700 --> 00:32:01,700

The new improved Heinemann hoverboard is a hit.

531

00:32:01,700 --> 00:32:05,700

Ready to race.

532

00:32:05,700 --> 00:32:06,700

That's it.

533

00:32:06,700 --> 00:32:08,700

That was the difference.

534

00:32:08,700 --> 00:32:09,700

Let's go home.

535

00:32:09,700 --> 00:32:10,700

Yeah.

536

00:32:10,700 --> 00:32:15,700

Adam will be here all night anyway.

537

00:32:15,700 --> 00:32:20,700

For his replacement motor, Adam has settled on a one-horsepower leaf trimmer.

538

00:32:20,700 --> 00:32:25,700

Dude, this is just going to plug right into the fan.

539

00:32:25,700 --> 00:32:29,700

I don't have to modify anything.

540

00:32:29,700 --> 00:32:33,700

Again, Adam's pushing the motor's limits.

541

00:32:33,700 --> 00:32:45,700

Guys, ready?

542

00:32:45,700 --> 00:32:50,700

A typhoon, this ain't.

543

00:32:50,700 --> 00:32:52,700

The new weed wacker is actually working fine.

544

00:32:52,700 --> 00:32:54,700

It's whacking away.

545

00:32:54,700 --> 00:33:02,700

It's my propeller that is lacking some balance.

546

00:33:02,700 --> 00:33:05,700

Adam's looking a little unbalanced too.

547

00:33:05,700 --> 00:33:13,700

His grand plan is running out of puff, and so is his team.

548

00:33:13,700 --> 00:33:16,700

You got something to say?

549

00:33:16,700 --> 00:33:18,700

I'm thinking about it.

550

00:33:18,700 --> 00:33:20,700

It's just been like one disaster after the next.

551

00:33:20,700 --> 00:33:22,700

It's the beautiful thing.

552

00:33:22,700 --> 00:33:26,700

We put so much time and love into it, and it's not working.

553

00:33:26,700 --> 00:33:29,700

It's not broken-hearted, and so is everybody else.

554

00:33:29,700 --> 00:33:31,700

Adam's pounding.

555

00:33:31,700 --> 00:33:32,700

There's nothing for it.

556

00:33:32,700 --> 00:33:42,700

They have to mount the engine and hope for the best.

557

00:33:42,700 --> 00:33:48,700

You ready?

558

00:33:48,700 --> 00:33:51,700

The lily pad flyer is going nowhere in a hurry,

559

00:33:51,700 --> 00:34:01,700

and Adam's in the fast lane to Palookaville.

560

00:34:01,700 --> 00:34:04,700

I'm out of ideas.

561

00:34:04,700 --> 00:34:13,700

I just ran out just a second.

562

00:34:13,700 --> 00:34:18,700

When a pat comes from the cameraman, it's really, really bad.

563

00:34:18,700 --> 00:34:22,700

But then, out of desperation, a plan.

564

00:34:22,700 --> 00:34:30,700

Pizza box wings. This is great.

565

00:34:30,700 --> 00:34:32,700

We're at the Icarus part of the evening,

566

00:34:32,700 --> 00:34:34,700

and I think you know what happened to Icarus.

567

00:34:34,700 --> 00:34:53,700

You can do it!

568

00:34:53,700 --> 00:34:58,700

You know, I think we might have something to say.

569

00:34:58,700 --> 00:35:04,700

I can only pray for one thing, and that is the total failure of Jamie's rig.

570

00:35:04,700 --> 00:35:07,700

Confident to the last.

571

00:35:07,700 --> 00:35:15,700

Let's go home.

572

00:35:15,700 --> 00:35:20,700

Two words. Nasty.

573

00:35:20,700 --> 00:35:23,700

It's nasty enough inside the hotel royal

574

00:35:23,700 --> 00:35:26,700

for the mythbusters to cover up with dust masks.

575

00:35:26,700 --> 00:35:28,700

There's the clean up to be done,

576

00:35:28,700 --> 00:35:34,700

and Jamie's got to get the elevator working again.

577

00:35:34,700 --> 00:35:36,700

Oh, it's going up. It went up.

578

00:35:36,700 --> 00:35:37,700

Did the car go up?

579

00:35:37,700 --> 00:35:38,700

Yep.

580

00:35:38,700 --> 00:35:41,700

Well, that's a good sign.

581

00:35:41,700 --> 00:35:44,700

It is awfully stiff, but it is moving.

582

00:35:44,700 --> 00:35:48,700

So, where there's movement, there can be improved movement.

583

00:35:48,700 --> 00:35:53,700

And I had an idea that I might be able to modify an electric vehicle that I built.

584

00:35:53,700 --> 00:35:56,700

It's a prototype that I have back at the shop.

585

00:35:56,700 --> 00:36:01,700

It's the same electrical vehicle Jamie used in the 7-up commercial,

586

00:36:01,700 --> 00:36:04,700

but extensively modified.

587

00:36:04,700 --> 00:36:09,700

He calls it the life and death machine, or LAD for short.

588

00:36:09,700 --> 00:36:14,700

I built a multi-purpose platform that has the electric motors,

589

00:36:14,700 --> 00:36:20,700

the gear reduction for them, speed controllers and electronics,

590

00:36:20,700 --> 00:36:25,700

and batteries all compacted into as tight of a unit as I could come up with,

591

00:36:25,700 --> 00:36:27,700

and then we put these treads on it.

592

00:36:27,700 --> 00:36:33,700

Jamie sees the LAD as having applications in firefighting and law enforcement.

593

00:36:33,700 --> 00:36:37,700

But today, it's got to lift an elevator.

594

00:36:44,700 --> 00:36:48,700

A little mythbuster love tap will ease the fit.

595

00:36:51,700 --> 00:36:53,700

Okay, ready?

596

00:36:53,700 --> 00:36:56,700

Hey, that's it.

597

00:36:57,700 --> 00:37:00,700

Alright, I don't think this thing is going anywhere.

598

00:37:00,700 --> 00:37:02,700

You want to turn it out and see if we can move this car?

599

00:37:02,700 --> 00:37:04,700

Alright.

600

00:37:04,700 --> 00:37:08,700

Remember, the elevator hasn't moved in years.

601

00:37:08,700 --> 00:37:09,700

That's moving.

602

00:37:09,700 --> 00:37:11,700

Oh, okay.

603

00:37:15,700 --> 00:37:17,700

Jamie, that looks great.

604

00:37:20,700 --> 00:37:22,700

Yeah, baby.

605

00:37:24,700 --> 00:37:28,700

Going up, second floor, dust and echoes.

606

00:37:29,700 --> 00:37:31,700

Good to be here.

607

00:37:31,700 --> 00:37:33,700

Do you have batteries for these?

608

00:37:34,700 --> 00:37:37,700

I think Jamie's rig is a classic mythbusters rig.

609

00:37:37,700 --> 00:37:40,700

You know, we have to lift an elevator, and Jamie says,

610

00:37:40,700 --> 00:37:46,700

I've got a robot in the shop that we could modify to lift this elevator.

611

00:37:46,700 --> 00:37:49,700

Bring it up about six more inches.

612

00:37:50,700 --> 00:37:53,700

Pokey-pokey, top floor, man, over.

613

00:37:53,700 --> 00:37:59,700

Top floor, broken fittings, pigeon poop, and all kinds of danger.

614

00:38:00,700 --> 00:38:05,700

Before starting work, Adam secures the car at the top of the shaft.

615

00:38:05,700 --> 00:38:07,700

We can't rush it.

616

00:38:07,700 --> 00:38:10,700

We don't want to be, you know, doing anything without being in total

617

00:38:10,700 --> 00:38:13,700

and absolute control of what's going on.

618

00:38:14,700 --> 00:38:18,700

It's nasty. If something goes wrong, somebody could get killed here.

619

00:38:18,700 --> 00:38:21,700

Elevators are designed not to fall.

620

00:38:21,700 --> 00:38:26,700

Fortunately, the mythbusters wrote the book on disabling safety systems.

621

00:38:26,700 --> 00:38:28,700

First up, the emergency brake.

622

00:38:28,700 --> 00:38:32,700

When the ball spins around too fast, if the elevator is falling,

623

00:38:32,700 --> 00:38:35,700

they lift up and drive out the two brakes.

624

00:38:35,700 --> 00:38:39,700

So what you're trying to say is that you take the balls off and don't work no more, right?

625

00:38:39,700 --> 00:38:41,700

You got it.

626

00:38:41,700 --> 00:38:43,700

Let's see.

627

00:38:44,700 --> 00:38:48,700

Anticlimactically enough, I believe I've disabled the entire mechanism

628

00:38:48,700 --> 00:38:50,700

by removing this simple pin.

629

00:38:50,700 --> 00:38:51,700

Well, okay.

630

00:38:52,700 --> 00:38:54,700

They're not in free fall mode yet.

631

00:38:54,700 --> 00:39:00,700

As well as being cabled to a winch, elevator cars are also linked to a counterweight,

632

00:39:00,700 --> 00:39:03,700

which weighs about the same as the car when half full.

633

00:39:03,700 --> 00:39:07,700

That keeps the system in balance and the car won't fall.

634

00:39:07,700 --> 00:39:10,700

That counterweight just has to go.

635

00:39:12,700 --> 00:39:15,700

We are cutting the cables. Stand by.

636

00:39:24,700 --> 00:39:27,700

That's so much heavier than it looks.

637

00:39:29,700 --> 00:39:32,700

Just the last lonely winch cables left.

638

00:39:32,700 --> 00:39:36,700

And with the car lowered back to the basement for safety,

639

00:39:36,700 --> 00:39:39,700

Adam is about to sabotage those too.

640

00:39:39,700 --> 00:39:43,700

This is a 10,000 pound movie special effects quick release.

641

00:39:43,700 --> 00:39:46,700

Going to attach it to this really big shackle.

642

00:39:46,700 --> 00:39:52,700

And when we get upstairs, we'll be able to pull a pin and this whole car will drop.

643

00:39:55,700 --> 00:40:01,700

You know, working with these dirty cables, I can't tell you how hard it is not to touch Jamie's white shirt.

644

00:40:01,700 --> 00:40:03,700

I just want to touch it.

645

00:40:03,700 --> 00:40:05,700

Make it dirty.

646

00:40:09,700 --> 00:40:12,700

You're ready to take tension on this, Jamie.

647

00:40:12,700 --> 00:40:13,700

Okay.

648

00:40:15,700 --> 00:40:18,700

The quick release is attached and holding.

649

00:40:18,700 --> 00:40:19,700

Beautiful.

650

00:40:19,700 --> 00:40:23,700

The star of the show has been roused from his luxury trailer.

651

00:40:23,700 --> 00:40:30,700

This promises to be the sorryest chapter in Buster's tragically accident prone life.

652

00:40:30,700 --> 00:40:36,700

He'll ride that car down nine floors sitting on a pogo stick.

653

00:40:36,700 --> 00:40:38,700

Okay, Buster, this won't hurt a bit.

654

00:40:39,700 --> 00:40:43,700

Adam's tying off a trip line at the top of the shaft.

655

00:40:43,700 --> 00:40:48,700

That will pull the release on the launcher when the elevator's six feet from the bottom.

656

00:40:48,700 --> 00:40:50,700

It's about perfect to meet.

657

00:40:50,700 --> 00:40:53,700

Okay, the rig is stationary. It's ready.

658

00:40:53,700 --> 00:40:55,700

The MythBusters are ready.

659

00:40:55,700 --> 00:41:01,700

They've built a giant pogo stick and made a death trap out of a previously safe elevator.

660

00:41:02,700 --> 00:41:11,700

As Buster rises towards the penthouse, he surely knows the outhouse will follow.

661

00:41:11,700 --> 00:41:14,700

But could he somehow survive?

662

00:41:14,700 --> 00:41:18,700

We're about to drop an elevator. I'm beside myself.

663

00:41:20,700 --> 00:41:22,700

It's all going to be over in a few seconds.

664

00:41:22,700 --> 00:41:25,700

And with a big boom, what else can we have for him?

665

00:41:26,700 --> 00:41:32,700

I think Buster's toast. But then that's his job.

666

00:41:41,700 --> 00:41:47,700

You will die in the elevator. You will die.

667

00:41:47,700 --> 00:41:52,700

It is not a good omen, but it's time for the great elevator drop.

668

00:41:52,700 --> 00:41:57,700

Can Buster survive a 90-foot fall if he jumps at the last second?

669

00:41:57,700 --> 00:42:02,700

Jamie and the team are in the basement. Adam's up top. Quick release in hand.

670

00:42:02,700 --> 00:42:05,700

I'm terrified. I'm totally excited.

671

00:42:05,700 --> 00:42:08,700

Alright, here we go.

672

00:42:08,700 --> 00:42:13,700

Ready to drop in five, four, three, two.

673

00:42:23,700 --> 00:42:32,700

Oh my God. That blew my face back.

674

00:42:32,700 --> 00:42:34,700

Man, that was intense.

675

00:42:42,700 --> 00:42:47,700

That was such a rush. And it's just like this enormous blast of air.

676

00:42:47,700 --> 00:42:49,700

Oh, no.

677

00:42:50,700 --> 00:42:55,700

The overhead camera shows Buster's Pogo stick launched right on cue.

678

00:42:55,700 --> 00:42:58,700

But did it save him?

679

00:42:58,700 --> 00:43:00,700

It's all over the Buster Bear.

680

00:43:03,700 --> 00:43:05,700

His head's gone.

681

00:43:05,700 --> 00:43:07,700

We've got an arm.

682

00:43:07,700 --> 00:43:12,700

I believe this is more damage than we've ever done to Buster in one myth before.

683

00:43:12,700 --> 00:43:15,700

I think Buster feels good about a job well done,

684

00:43:15,700 --> 00:43:18,700

and he just hopes that we don't put his head on backwards.

685

00:43:18,700 --> 00:43:24,700

By the bottom of the shaft, the elevator and Buster were falling at 53 miles an hour.

686

00:43:24,700 --> 00:43:29,700

Buster jumped up at three feet per second, or two miles an hour.

687

00:43:29,700 --> 00:43:36,700

Enough to hit the roof, but he still hit the ground at a fatal 51 miles an hour.

688

00:43:36,700 --> 00:43:38,700

I don't know if we can put it back together.

689

00:43:38,700 --> 00:43:39,700

Yeah, Scotty can do it.

690

00:43:39,700 --> 00:43:41,700

We can rebuild him.

691

00:43:41,700 --> 00:43:43,700

Come on.

692

00:43:43,700 --> 00:43:47,700

Buster will be repaired, but if he was smashed to pieces,

693

00:43:47,700 --> 00:43:52,700

how did that elevator operator survive her plunge in the Empire State Building

694

00:43:52,700 --> 00:43:55,700

from ten times the height?

695

00:43:55,700 --> 00:43:59,700

Turns out the car was a tight fit inside the shaft,

696

00:43:59,700 --> 00:44:01,700

so trapped a cushion of air beneath it,

697

00:44:01,700 --> 00:44:06,700

and the cable hanging below coiled into a kind of spring as it fell.

698

00:44:06,700 --> 00:44:11,700

Those two factors slowed the car enough to save her life.

699

00:44:11,700 --> 00:44:15,700

Alas, fate was not so kind to Buster.

700

00:44:15,700 --> 00:44:18,700

Well, you know, you might be weightless relative to the elevator,

701

00:44:18,700 --> 00:44:24,700

but you and the elevator are going down at 53 miles an hour.

702

00:44:24,700 --> 00:44:31,700

So unless you can jump up at 53 miles per hour, you're dead.

703

00:44:31,700 --> 00:44:33,700

I think we've done all that we can here.

704

00:44:33,700 --> 00:44:36,700

I think this myth is definitively and finally Buster.

705

00:44:36,700 --> 00:44:39,700

Yeah, it was fun though.

706

00:44:45,700 --> 00:44:49,700

Ocean Beach, San Francisco, a field of dreams.

707

00:44:49,700 --> 00:44:51,700

Good day for kicking a...

708

00:44:51,700 --> 00:44:56,700

For hovercraft builders, it promises triumph.

709

00:44:56,700 --> 00:45:01,700

Or the sand of defeat kicked in their face.

710

00:45:01,700 --> 00:45:05,700

But Adam has a secret weapon waiting in the wings,

711

00:45:05,700 --> 00:45:09,700

and he can certainly hold his own in the pre-match cycle.

712

00:45:09,700 --> 00:45:12,700

It certainly is pretty, isn't it?

713

00:45:12,700 --> 00:45:15,700

I like the flame decoration on the...

714

00:45:15,700 --> 00:45:17,700

What is that? The garbage can or is that the cowl?

715

00:45:17,700 --> 00:45:21,700

Sorry, that would be deducted fan cowling.

716

00:45:21,700 --> 00:45:25,700

Well, Jamie's rig is magnificent in its simplicity.

717

00:45:25,700 --> 00:45:29,700

I mean, there is not a wasted piece of wood or anything in this thing.

718

00:45:29,700 --> 00:45:33,700

He's got two motors, and I've got five.

719

00:45:33,700 --> 00:45:37,700

I'm not sure what that means, but I think it means that I'm going to go faster.

720

00:45:38,700 --> 00:45:42,700

The course is 200 yards out and back across sand and water.

721

00:45:42,700 --> 00:45:48,700

A grueling test, but by mutual agreement there's a last-minute concession.

722

00:45:48,700 --> 00:45:53,700

Team members can push, but Scotty is home sick.

723

00:45:53,700 --> 00:45:57,700

And there's Adam's secret weapon.

724

00:45:57,700 --> 00:46:00,700

This race is suddenly wide open.

725

00:46:00,700 --> 00:46:02,700

Get away from me!

726

00:46:02,700 --> 00:46:06,700

Three, two, one, go!

727

00:46:08,700 --> 00:46:12,700

The Heinemann hoverboard leads out.

728

00:46:12,700 --> 00:46:19,700

But team Savage has pulled a switcheroo heading into the water hazard.

729

00:46:19,700 --> 00:46:23,700

It floats like it flies.

730

00:46:23,700 --> 00:46:25,700

I got to lose this.

731

00:46:25,700 --> 00:46:30,700

Jamie's first out of the water, but his lift engines have stalled.

732

00:46:30,700 --> 00:46:33,700

Fair play beat down.

733

00:46:33,700 --> 00:46:37,700

Adam's calling in reinforcements.

734

00:46:37,700 --> 00:46:41,700

Yeah! Come on!

735

00:46:44,700 --> 00:46:47,700

We got to go to the left around the buoy.

736

00:46:47,700 --> 00:46:50,700

Head home! Here we go!

737

00:46:52,700 --> 00:46:55,700

At the turn, Heinemann's heroes are closing in.

738

00:46:55,700 --> 00:47:00,700

Woo! We're almost there, we're almost there, we're doing great!

739

00:47:00,700 --> 00:47:04,700

Pushing Adam's heavy craft is taking its toll.

740

00:47:10,700 --> 00:47:14,700

A jockey change and fresh legs could be the difference.

741

00:47:21,700 --> 00:47:26,700

After doing everything in his power to fail, Adam has somehow won.

742

00:47:31,700 --> 00:47:34,700

Woo! Victory!

743

00:47:34,700 --> 00:47:37,700

Way to come in at the last minute there.

744

00:47:37,700 --> 00:47:43,700

Nice. That was possibly the stupidest contest ever in the world.

745

00:47:43,700 --> 00:47:45,700

The thing just filled full of sand.

746

00:47:45,700 --> 00:47:49,700

You know, we tested it on a shop floor, smooth concrete, worked great.

747

00:47:49,700 --> 00:47:55,700

I'm fairly confident we would have easily won the race, but it's a big scoop.

748

00:47:56,700 --> 00:48:04,700

It may be academic, but Jamie calls a rematch just to see who would have won without a systems.

749

00:48:04,700 --> 00:48:09,700

On dry land, it's no contest. This time, it's all Jamie.

750

00:48:09,700 --> 00:48:16,700

The Heinemann hoverboard leads the lily pad flyer in its wake, and a little pride is restored.

751

00:48:17,700 --> 00:48:20,700

Well, they both suck.

752

00:48:20,700 --> 00:48:23,700

What a beautiful movie.

753

00:48:23,700 --> 00:48:30,700

But what of the myth? Can you really build a levitation machine out of household items?

754

00:48:30,700 --> 00:48:36,700

Well, Jamie, if you ordered these plans out of a catalog to build a levitation machine out of three vacuum cleaner motors,

755

00:48:36,700 --> 00:48:41,700

we showed that you could do it, and I actually got about six inches of levitation.

756

00:48:41,700 --> 00:48:45,700

Yeah, but in my mind, it's not really levitation. This is a hovercraft.

757

00:48:45,700 --> 00:48:50,700

Well, I'd say for the record, this myth is plausible, but totally impractical.

758

00:48:50,700 --> 00:48:54,700

Yeah, plausible, but impractical.