

1

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

Please do not try what you are about to see at home.

2

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

We're what you call experts.

3

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

Can't you tell?

4

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

On this episode of Mythbusters...

5

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

Hello. I'm talking to you from a bunker two leagues below a building known to the public as M5.

6

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

Behind me, the Heinemann watches hundreds of feeds from Mythbusters over years past, but not out of narcissism.

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

No, this has a purpose.

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

The powers that be have allowed the Heinemann to sift through all the constructions that he's done over the past ten years

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

to find one that he found unsatisfying and wants to revisit.

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

One that will bring a smile, an invisible smile underneath his prodigious mustache.

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

Would you shut up?

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

Yeah, can it Adam?

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

Because this episode is all about second chances.

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00:00:58,000 --> 00:01:03,000

With over a decade of episodes and 850 myths to choose from...

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

One.

16

00:01:04,000 --> 00:01:09,000

They scan the archives for their greatest unsolved myth theories.

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00:01:09,000 --> 00:01:17,000

Adam and Jamie have a blast from the past as they mix dynamite and DIY once again.

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00:01:17,000 --> 00:01:20,000

Oh, what modern inventions will we come up with next?

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

But can they deck the walls?

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

I call this my psychedelic spring.

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00:01:24,000 --> 00:01:26,000

And paint a room with a boom.

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

Congratulations, you finally made the Death Star.

23

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

Go!

24

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

Meanwhile, Kari Torian Grant

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

Inflows

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

Are fulfilling a fan fantasy.

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00:01:36,000 --> 00:01:38,000

Oh, this is going to be so awesome.

28

00:01:38,000 --> 00:01:41,000

Going full steam ahead to split a boat.

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00:01:41,000 --> 00:01:42,000

Me that he split it.

30

00:01:42,000 --> 00:01:44,000

Testing first by sea.

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00:01:44,000 --> 00:01:46,000

Come on, come on, come on, come on!

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00:01:47,000 --> 00:01:48,000

And then on land.

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00:01:48,000 --> 00:01:49,000

This is it, man.

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

Three, two, one.

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

But can they finally splinter their timbers?

36

00:01:56,000 --> 00:01:58,000

And tear a boat in two.

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

There's one thing I like.

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

It's fast.

39

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

Who are the mythbusters?

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

Adam Savage.

41

00:02:08,000 --> 00:02:11,000

I reject the reality and substitute my own.

42

00:02:11,000 --> 00:02:12,000

And Jamie Heineman.

43

00:02:12,000 --> 00:02:13,000

Almost too excited.

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00:02:13,000 --> 00:02:17,000

Between them more than 30 years of special effects experience.

45

00:02:18,000 --> 00:02:20,000

Together with Brad Himahara.

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00:02:20,000 --> 00:02:22,000

This is why we can never have anything nice.

47

00:02:22,000 --> 00:02:23,000

Kari Byron.

48

00:02:23,000 --> 00:02:25,000

Science gets more fun when I get a bigger gun.

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

And Tori Belachie.

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00:02:26,000 --> 00:02:28,000

Say hello to a little friend.

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

They don't just tell them this.

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

They put them to the test.

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00:02:33,000 --> 00:02:44,000

First, Adam and Jamie are brushing up on their arts and blasts.

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00:02:45,000 --> 00:02:49,000

For those of you playing at home, Painting with Explosives is a show we did years ago

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00:02:49,000 --> 00:02:52,000

based on an episode of the British comedy Mr. Bean.

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00:02:52,000 --> 00:02:56,000

In which a stick of dynamite is placed in a bucket of paint.

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00:02:56,000 --> 00:03:00,000

And when it blows up, it perfectly paints the room it's in without destroying the room.

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

Yeah, but our explosives didn't do a very good job of it, did they?

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00:03:04,000 --> 00:03:08,000

Nah, I think we ended up more like staining the walls than actually painting them.

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00:03:08,000 --> 00:03:10,000

Yeah, it was a Jackson Pollock sort of a moment.

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00:03:10,000 --> 00:03:11,000

Yeah, barely.

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00:03:12,000 --> 00:03:15,000

Yep, the last time we tested this weapon of mass decoration.

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00:03:15,000 --> 00:03:16,000

One.

64

00:03:19,000 --> 00:03:24,000

Our painters and detonators coverage total crap.

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00:03:24,000 --> 00:03:25,000

Got paint on the walls.

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

That's horrible.

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00:03:26,000 --> 00:03:29,000

But you wouldn't call it home improvement.

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00:03:30,000 --> 00:03:32,000

So you think you could actually do it this time?

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00:03:32,000 --> 00:03:33,000

You have a new design in mind?

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00:03:33,000 --> 00:03:35,000

Well, I'd like to try.

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00:03:35,000 --> 00:03:40,000

As you know, I have a thing about actually harnessing the power of explosives to do work

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

instead of just blowing crap up.

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00:03:41,000 --> 00:03:42,000

I have some ideas of my own.

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00:03:42,000 --> 00:03:46,000

Let's say for this episode we go off to our separate corners and each try a solution

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00:03:46,000 --> 00:03:49,000

and see if we can't finally achieve painting with explosives.

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00:03:49,000 --> 00:03:50,000

Sounds like fun.

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00:03:50,000 --> 00:03:51,000

All right.

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00:03:51,000 --> 00:03:52,000

Boom.

79

00:03:54,000 --> 00:03:57,000

So the guys will split up and each craft their own room boom.

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00:03:57,000 --> 00:04:00,000

But that's going to take some bomb range R&D.

81

00:04:01,000 --> 00:04:02,000

What a lovely day.

82

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

Let's blow something up.

83

00:04:05,000 --> 00:04:07,000

At first to take up the brush is Adam.

84

00:04:09,000 --> 00:04:10,000

I'm going all the way back to basics.

85

00:04:10,000 --> 00:04:14,000

I'm going to take a little chunk of C4 and a bag of paint and a surface.

86

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

I'm going to blow up the C4 and watch what it does to the paint on the surface.

87

00:04:18,000 --> 00:04:20,000

So Adam's plan is to start small.

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00:04:21,000 --> 00:04:22,000

C4 goes here.

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

Paint hangs here.

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00:04:24,000 --> 00:04:26,000

My test canvas goes here.

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00:04:27,000 --> 00:04:34,000

Under the watchful eye of JD Nelson to explore what happens when paint meets explosive meets canvas.

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00:04:34,000 --> 00:04:35,000

Painting with explosives.

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00:04:35,000 --> 00:04:39,000

First experiment in three, two, one, go.

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00:04:42,000 --> 00:04:43,000

Fascinating.

95

00:04:43,000 --> 00:04:44,000

Fascinating.

96

00:04:44,000 --> 00:04:45,000

It's just like a...

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00:04:49,000 --> 00:04:51,000

That's not at all what I expected to happen.

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00:04:52,000 --> 00:04:53,000

That's information.

99

00:04:53,000 --> 00:04:55,000

That was the whole point of this test.

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00:04:55,000 --> 00:04:59,000

That fraction of coverage is a long way from what Adam needs.

101

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

Boom.

102

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

And the action replay reveals why.

103

00:05:04,000 --> 00:05:06,000

Whoa, the paint's still there.

104

00:05:06,000 --> 00:05:07,000

Wow.

105

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

It's totally not vaporizing.

106

00:05:10,000 --> 00:05:11,000

It's too far away.

107

00:05:12,000 --> 00:05:13,000

That is radical.

108

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

Awesome.

109

00:05:14,000 --> 00:05:15,000

Okay.

110

00:05:15,000 --> 00:05:16,000

I know what to do next.

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00:05:17,000 --> 00:05:21,000

Yep, for test two, Adam's got something different on his plate.

112

00:05:22,000 --> 00:05:28,000

So the difference between this last and the last one is that I am going to move the paint much closer, in fact, right on top of the C4.

113

00:05:28,000 --> 00:05:35,000

And second, as you've probably already surmised by this, I'm going to give the C4 a reflecting backing plate.

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

This big, heavy piece of steel.

115

00:05:37,000 --> 00:05:38,000

Oh, cool.

116

00:05:38,000 --> 00:05:39,000

There it is.

117

00:05:39,000 --> 00:05:40,000

There you go.

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

I'm not actually sure if this is going to work, but it's going to be really different than the last one, and that's going to tell me something.

119

00:05:48,000 --> 00:05:50,000

In three, two, one, go.

120

00:05:52,000 --> 00:05:53,000

Boom.

121

00:05:57,000 --> 00:05:58,000

That was far more effective.

122

00:05:58,000 --> 00:06:03,000

The backing plate certainly reflected the paint onto the board and everywhere else.

123

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

There you go.

124

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

Hi there.

125

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

How you doing?

126

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

Hi.

127

00:06:14,000 --> 00:06:18,000

The high-speed shot of my blue paint explosion is absolutely gorgeous.

128

00:06:18,000 --> 00:06:26,000

I got exactly the vaporized fog of paint that I was looking for, and most of it ended up on the 4x8 of wood that I had placed there to receive the paint.

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00:06:26,000 --> 00:06:30,000

It's about as far as you'd get if you wanted to roll that much paint onto that board.

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00:06:31,000 --> 00:06:37,000

And that's exactly the kind of coverage Adam was looking for, but he still thinks he can improve on it.

131

00:06:38,000 --> 00:06:40,000

In this test, I'll be using this.

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00:06:40,000 --> 00:06:46,000

It's actually a thin sheet of plasticized sheet explosive, sort of a C4 jerky, if you will.

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00:06:46,000 --> 00:06:47,000

But don't eat it.

134

00:06:49,000 --> 00:06:50,000

No, I'm going to paint with it.

135

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

But while spreading the explosive under the paint, also spread the coverage.

136

00:06:57,000 --> 00:06:58,000

All right, here we go.

137

00:06:58,000 --> 00:07:02,000

Final explosion in three, two, one, go.

138

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

That was more powerful than I expected it to be.

139

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

That's not too much of a...

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

Well, let's go see how it did with the paint anyway.

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00:07:22,000 --> 00:07:26,000

It was less a lick of paint and more a riot of color.

142

00:07:26,000 --> 00:07:28,000

And that goes there.

143

00:07:28,000 --> 00:07:32,000

But piecing back together his canvas has inspired Adam.

144

00:07:32,000 --> 00:07:37,000

Well, for me, that was a very successful and excellent day, and not just because I spent the day blowing stuff up.

145

00:07:38,000 --> 00:07:45,000

Because in blowing stuff up, I actually learned, I believe I learned everything I need to know to paint with explosives,

146

00:07:45,000 --> 00:07:48,000

including how much explosives is too much.

147

00:07:48,000 --> 00:07:49,000

Time to get to work.

148

00:07:49,000 --> 00:07:55,000

So Adam heads back to the shop, where another myth buster has been planned with his nozzles.

149

00:07:56,000 --> 00:08:02,000

The way I see it, if I can get a single blast of paint going through a nozzle to cover an entire wall perfectly evenly,

150

00:08:02,000 --> 00:08:09,000

then if I have multiple nozzles painting multiple walls, I can get a single blast of paint to paint a whole room.

151

00:08:11,000 --> 00:08:18,000

I'm thinking that this sort of flattened orifice here is restricting the paint to where it doesn't come out in a cone,

152

00:08:18,000 --> 00:08:22,000

but rather it comes out in a rectangle, and that's exactly what I need.

153

00:08:23,000 --> 00:08:25,000

It's exactly what he needs.

154

00:08:25,000 --> 00:08:28,000

But a hose is a long way from an explosion.

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00:08:29,000 --> 00:08:37,000

With that in mind, I've broken out this rig that I built some time ago, because it'll allow me to test with up to about 700 psi,

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00:08:37,000 --> 00:08:39,000

and we'll see if that fans it out more.

157

00:08:39,000 --> 00:08:42,000

Jamie's aiming for a rectangular spread onto the wall.

158

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

It's too far open.

159

00:08:45,000 --> 00:08:49,000

But it's a delicate business of tweaking his nozzle just so.

160

00:08:49,000 --> 00:08:50,000

I like the first one better.

161

00:08:50,000 --> 00:08:54,000

Until eventually, he finds his Goldilocks ratio.

162

00:08:54,000 --> 00:08:57,000

Three, two, one.

163

00:08:59,000 --> 00:09:03,000

It's looking pretty good.

164

00:09:03,000 --> 00:09:10,000

Yep, and with his nozzle in hand, Jamie heads to the bomb range to put part two of his theory to the test.

165

00:09:11,000 --> 00:09:12,000

Solid as rock.

166

00:09:13,000 --> 00:09:20,000

My theory is that this time around, we need to contain the paint and the explosives in something like this high pressure scuba tank,

167

00:09:20,000 --> 00:09:26,000

and when the explosives go off, the paint will be propelled out the nozzle of the tank, kind of like a spray nozzle,

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

and we'll end up with our nicely painted wall, hopefully not a pipe bomb.

169

00:09:31,000 --> 00:09:34,000

Yep, Jamie's method all comes down to pressure.

170

00:09:34,000 --> 00:09:39,000

But first, what happens when you put explosives inside a tank of paint?

171

00:09:39,000 --> 00:09:43,000

All right, this is test one, C4, no nozzle.

172

00:09:43,000 --> 00:09:47,000

In three, two, one, go.

173

00:09:49,000 --> 00:09:53,000

Ah, that actually is quite nice.

174

00:09:54,000 --> 00:09:57,000

It looks like it sent most of the paint out.

175

00:09:59,000 --> 00:10:00,000

No rupture.

176

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

It didn't blow, so tank two is filled with paint and then fitted with the patented Heinemann nozzle.

177

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

But will the combo of rectangular nozzle and pressurized paint cover the wall?

178

00:10:14,000 --> 00:10:18,000

In three, two, one.

179

00:10:19,000 --> 00:10:28,000

Well, once again, the tank survived, but the nozzle doesn't seem to have made any difference to the coverage.

180

00:10:30,000 --> 00:10:37,000

We're pushing the limits with what we can get with these tanks, and the fact is that I'm not creating the kind of spread that I need.

181

00:10:37,000 --> 00:10:43,000

I need more pressure to get that spread, so I think it's best to the drawing board.

182

00:10:44,000 --> 00:10:48,000

Later, can the Mythbusters make high art with high explosives?

183

00:10:48,000 --> 00:10:49,000

Go.

184

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

Oh, my gosh.

185

00:10:51,000 --> 00:10:54,000

And territorial grant way anchor on water.

186

00:10:54,000 --> 00:10:55,000

Maybe he split it.

187

00:10:55,000 --> 00:10:59,000

But will the curse of the bifurcated boat return?

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

The Mythbusters have been testing, confirming, and busting for over 10 years.

189

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

And now they're closing the case on some unsolved mythteries.

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00:11:18,000 --> 00:11:20,000

Now, if you guys don't remember the story, it goes like this.

191

00:11:20,000 --> 00:11:27,000

A man is driving his speedboat out of control and crashes into a channel marker, almost splitting the boat in half.

192

00:11:27,000 --> 00:11:31,000

Now he tells the insurance company that he was only traveling at 25 miles an hour.

193

00:11:31,000 --> 00:11:32,000

We tried it.

194

00:11:32,000 --> 00:11:33,000

We couldn't split the boat.

195

00:11:33,000 --> 00:11:34,000

We couldn't even get a tear.

196

00:11:34,000 --> 00:11:37,000

Yeah, our results were less than spectacular.

197

00:11:37,000 --> 00:11:41,000

But according to you fans, that's because our methodology was totally wrong.

198

00:11:41,000 --> 00:11:42,000

Because we didn't do it on water.

199

00:11:42,000 --> 00:11:43,000

Exactly.

200

00:11:43,000 --> 00:11:46,000

So right here, right now, we are going to retest it.

201

00:11:46,000 --> 00:11:48,000

We're going to kill two birds with one stone.

202

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

It was the myth they said was cursed.

203

00:11:51,000 --> 00:11:53,000

But despite the rain...

204

00:11:53,000 --> 00:11:55,000

Pretty much over this one.

205

00:11:55,000 --> 00:11:56,000

The problems...

206

00:11:56,000 --> 00:11:58,000

Did we lose the cable?

207

00:11:58,000 --> 00:11:59,000

The arguments...

208

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

We never used the blue rope.

209

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

We always used the blue.

210

00:12:02,000 --> 00:12:03,000

No, we haven't.

211

00:12:03,000 --> 00:12:04,000

And the accidents...

212

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

The guys could never split the boat.

213

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

Oh, the story's busted at 25.

214

00:12:14,000 --> 00:12:18,000

However, the fans say this land-loving test...

215

00:12:19,000 --> 00:12:20,000

Was a flub.

216

00:12:21,000 --> 00:12:23,000

Alright, ten year take two. What's the plan?

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

Well, it's obvious.

218

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

We have to test this on water just like the fans asked.

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00:12:26,000 --> 00:12:30,000

Well, we need a boat and a channel marker, but how do we get the two to crash?

220

00:12:30,000 --> 00:12:31,000

Why don't we do it the same way?

221

00:12:31,000 --> 00:12:33,000

This time we just used power boats.

222

00:12:33,000 --> 00:12:34,000

You make it sound so easy.

223

00:12:34,000 --> 00:12:36,000

Well, now we're older and wiser.

224

00:12:36,000 --> 00:12:38,000

We are older.

225

00:12:38,000 --> 00:12:40,000

Yep, although the myth is the same...

226

00:12:40,000 --> 00:12:44,000

Crash a speedboat at 25 miles an hour into a channel marker...

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00:12:44,000 --> 00:12:48,000

Instead of testing on the runway, they'll float their boat on a lake.

228

00:12:48,000 --> 00:12:53,000

And rather than using a tow truck, they'll use a pair of tow boats.

229

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

So to weigh anchor on water, it's off to a big break arena in Oakley.

230

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

So that's the boat.

231

00:13:02,000 --> 00:13:05,000

Oh, that is awesome. There she is.

232

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

That brings back memories.

233

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

Not all of them good.

234

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

Now remember, we have to crash our boat into a channel marker.

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

As you can see, this arena is filled with them,

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

but for some reason they don't want us to crash our boat into there.

237

00:13:18,000 --> 00:13:20,000

So we need to plant our own.

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00:13:20,000 --> 00:13:27,000

Now this is no easy job, and we're talking about a 40 foot pole being sunk 12 feet into the ground while on top of the water.

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00:13:28,000 --> 00:13:32,000

Luckily for us, Rob, our friend here, has a floating pile driver.

240

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

Indeed, and with Rob driving our pole into the Delta,

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00:13:39,000 --> 00:13:42,000

it's time to shape up and ship out.

242

00:13:45,000 --> 00:13:47,000

We've removed the engine just like last time,

243

00:13:47,000 --> 00:13:51,000

so we're going to replace the equivalent weight of the engine with barrels full of water.

244

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

And with the barrels aboard, it's time to hit the waves.

245

00:13:55,000 --> 00:13:56,000

Check for holes.

246

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

Step one, it floats.

247

00:13:59,000 --> 00:14:03,000

It floats, and now to give it the equivalent ballast of an engine.

248

00:14:04,000 --> 00:14:07,000

But to get it moving on water, it's going to need help.

249

00:14:08,000 --> 00:14:11,000

These are our tow boats. That's right. You heard me. Two boats.

250

00:14:11,000 --> 00:14:13,000

Because there's too much water resistance for just one.

251

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

Each of these boats has 175 horsepower engine.

252

00:14:16,000 --> 00:14:20,000

That should be plenty of power to get our speedboat up to 25 miles an hour.

253

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

Up to 25 miles per hour.

254

00:14:23,000 --> 00:14:28,000

And into the newly installed Picture Perfect Channel Marker.

255

00:14:29,000 --> 00:14:32,000

Before we rig all the important components to this experiment,

256

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

I thought we needed a little authenticity and make this look just like the viral photo.

257

00:14:37,000 --> 00:14:40,000

And with the tow system working, they're ready to test.

258

00:14:40,000 --> 00:14:42,000

But while the cameras reset,

259

00:14:46,000 --> 00:14:48,000

tragedy strikes.

260

00:14:48,000 --> 00:14:51,000

You're probably wondering why there's a giant barge in the middle of our channel.

261

00:14:51,000 --> 00:14:53,000

And we were wondering the same thing.

262

00:14:53,000 --> 00:14:57,000

And then that barge got closer and closer to our channel marker

263

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

and it actually knocked it over into the water.

264

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

In fact, our crew right now is looking for it trying to fish it out.

265

00:15:04,000 --> 00:15:05,000

Did you guys find it yet?

266

00:15:05,000 --> 00:15:06,000

Not yet.

267

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

This is so myth busters.

268

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

I mean, everything was going so smoothly, something had to go wrong.

269

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

But unlike the marker, this myth ain't sunk yet.

270

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

Could painting be as easy as 321 boom?

271

00:15:27,000 --> 00:15:33,000

Well, when the myth busters tried this, their TNT DIY was DOA.

272

00:15:33,000 --> 00:15:35,000

I thought it would be a little better than that.

273

00:15:35,000 --> 00:15:39,000

Now armed with seven years more explosives experience,

274

00:15:39,000 --> 00:15:43,000

their first stop was painting in Detonation 101.

275

00:15:43,000 --> 00:15:46,000

That's information. That was the whole point of this test.

276

00:15:46,000 --> 00:15:50,000

And back at the shop, Jamie's tank full for all that research.

277

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

Having seen this tank down near rupture from an explosion

278

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

points out the fact that when an explosive goes off,

279

00:15:56,000 --> 00:16:00,000

the energy from it wants to travel outward evenly in all directions.

280

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

It's almost a spherical swelling.

281

00:16:03,000 --> 00:16:07,000

So, you know, maybe a cylindrical tank isn't the way to go.

282

00:16:07,000 --> 00:16:09,000

Maybe we need a spherical tank.

283

00:16:09,000 --> 00:16:13,000

But the problem is that you can't just go to the store and buy one

284

00:16:13,000 --> 00:16:15,000

like you can a scuba tank.

285

00:16:15,000 --> 00:16:17,000

You got to make your own.

286

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

And that's not a simple task.

287

00:16:19,000 --> 00:16:23,000

Not a simple task, but the Heidemann mind will find a way.

288

00:16:23,000 --> 00:16:27,000

In fact, it looks like he already has.

289

00:16:27,000 --> 00:16:32,000

Jamie's thought up an ingenious flat-pack design for his spherical tank.

290

00:16:32,000 --> 00:16:35,000

There we go. 24 one-inch thick washers.

291

00:16:35,000 --> 00:16:39,000

And 26 assorted other parts to bolt it all together.

292

00:16:39,000 --> 00:16:44,000

Looks like it on a way around 3,500 pounds.

293

00:16:44,000 --> 00:16:46,000

That's a big heavy sphere.

294

00:16:46,000 --> 00:16:49,000

Yep, that's no moon.

295

00:16:49,000 --> 00:16:56,000

So it's off to get those washers plasma cut and then put it all together.

296

00:16:56,000 --> 00:16:59,000

So, when this is all assembled,

297

00:16:59,000 --> 00:17:04,000

it should hold upwards of 50,000 psi from the blast.

298

00:17:04,000 --> 00:17:06,000

At least that's the plan.

299

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

That's the plan.

300

00:17:07,000 --> 00:17:12,000

But with over 50 parts all cut from one inch heavy duty plate,

301

00:17:12,000 --> 00:17:14,000

this thing's a beast.

302

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

That's one giant 3D puzzle.

303

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

But as it's a brain teaser of his own design,

304

00:17:20,000 --> 00:17:24,000

Jamie has this riddle wrapped in an enigma all figured out.

305

00:17:24,000 --> 00:17:26,000

The sphere is being made in two halves

306

00:17:26,000 --> 00:17:30,000

and each half is basically a stack of different sized washers

307

00:17:30,000 --> 00:17:34,000

that get put on top of each other and welded together.

308

00:17:34,000 --> 00:17:38,000

Now the holes leave a 10-inch diameter cavity in the middle of this sphere.

309

00:17:38,000 --> 00:17:41,000

And that's where the paint and the dynamite goes.

310

00:17:41,000 --> 00:17:43,000

There we go.

311

00:17:43,000 --> 00:17:45,000

Now when the explosive goes off,

312

00:17:45,000 --> 00:17:47,000

all of that paint has got to go somewhere.

313

00:17:47,000 --> 00:17:51,000

And so I'm hoping that it'll go right into these sort of funnel shapes

314

00:17:51,000 --> 00:17:56,000

in these nozzles and straight out and paint our walls.

315

00:17:56,000 --> 00:17:59,000

What it actually will do as far as painting a house,

316

00:17:59,000 --> 00:18:03,000

I'm not really sure, but I'm having a ball.

317

00:18:03,000 --> 00:18:04,000

Get it?

318

00:18:04,000 --> 00:18:06,000

He's having a ball.

319

00:18:06,000 --> 00:18:09,000

And as he works long into the night,

320

00:18:09,000 --> 00:18:14,000

it's clear Jamie's sphere has turned to the dark side.

321

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

You know, if you want to contain a high explosive,

322

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

that's what you've got to do.

323

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

That's pretty.

324

00:18:30,000 --> 00:18:33,000

Well, while Jamie's working on whatever flower of death

325

00:18:33,000 --> 00:18:35,000

he's building back there behind the forklift,

326

00:18:35,000 --> 00:18:38,000

I have been thinking seriously about the explosions that I got

327

00:18:38,000 --> 00:18:40,000

out of the bomb range.

328

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

Oh, right.

329

00:18:47,000 --> 00:18:49,000

So they have given me the ideas that I need.

330

00:18:49,000 --> 00:18:51,000

I've got all the stuff that I need.

331

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

I've got all the steel cut.

332

00:18:53,000 --> 00:18:56,000

I'm about to start constructing my painting device here in the shop.

333

00:18:56,000 --> 00:18:57,000

Yep.

334

00:18:57,000 --> 00:19:01,000

And just like the Heinemann, Adam's device ain't simple.

335

00:19:02,000 --> 00:19:04,000

There's a lot of moving parts in this painting rig,

336

00:19:04,000 --> 00:19:06,000

but it's going to be cool.

337

00:19:06,000 --> 00:19:09,000

Adam welds some frames.

338

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

And then, well, we're not quite sure what he's doing.

339

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

Woo!

340

00:19:16,000 --> 00:19:18,000

Coming along.

341

00:19:18,000 --> 00:19:21,000

And that's exactly how he wants it to stay.

342

00:19:23,000 --> 00:19:25,000

All right.

343

00:19:25,000 --> 00:19:27,000

At this point, I'd like you to take a moment and speculate

344

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

on how you think my painting machine works,

345

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

because you know what's cool?

346

00:19:31,000 --> 00:19:32,000

You're totally wrong.

347

00:19:32,000 --> 00:19:34,000

I'm going way off the reservation on this one.

348

00:19:34,000 --> 00:19:37,000

Oh, what modern inventions will we come up with next?

349

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

So with Adam's secret device apparently complete

350

00:19:40,000 --> 00:19:42,000

and Jamie's secret device,

351

00:19:42,000 --> 00:19:45,000

apparently complete and Jamie's giant death sphere

352

00:19:45,000 --> 00:19:47,000

on the back of the truck,

353

00:19:47,000 --> 00:19:49,000

war on walls can begin.

354

00:19:50,000 --> 00:19:53,000

Three, two, one, go.

355

00:20:01,000 --> 00:20:03,000

At the big break marina,

356

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

What the f***?

357

00:20:05,000 --> 00:20:06,000

Oh, no!

358

00:20:06,000 --> 00:20:08,000

There's been a big barge break,

359

00:20:08,000 --> 00:20:11,000

and it seems as though the bifurcated boat curse is back.

360

00:20:11,000 --> 00:20:14,000

Ah, good old bifurcated boat.

361

00:20:14,000 --> 00:20:16,000

In the great tradition of the myth that he split,

362

00:20:16,000 --> 00:20:18,000

this is a completely cursed experiment.

363

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

We lost our channel marker to that barge,

364

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

but luckily we've procured another.

365

00:20:22,000 --> 00:20:25,000

The bad news is we do lose a little authenticity

366

00:20:25,000 --> 00:20:29,000

as our seagull and our sinner at the bottom of the lake.

367

00:20:30,000 --> 00:20:32,000

Go ahead, Tori, back it in.

368

00:20:32,000 --> 00:20:34,000

Yep, with ten years of experience,

369

00:20:34,000 --> 00:20:37,000

our crew certainly knows how to salvage a myth.

370

00:20:37,000 --> 00:20:40,000

And thanks to their quick thinking and resourcefulness,

371

00:20:40,000 --> 00:20:42,000

I feel like we've done this before.

372

00:20:42,000 --> 00:20:43,000

Because you have.

373

00:20:43,000 --> 00:20:45,000

Hole two is good to go.

374

00:20:46,000 --> 00:20:49,000

And now that the fans are getting their watery way,

375

00:20:49,000 --> 00:20:53,000

just how much difference will testing in the drink make?

376

00:20:53,000 --> 00:20:55,000

So what's the big deal with water?

377

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

Well, here's why it might make a difference

378

00:20:57,000 --> 00:20:59,000

doing it on water this time.

379

00:20:59,000 --> 00:21:02,000

The boat is sitting on the water, water's incompressible.

380

00:21:02,000 --> 00:21:04,000

That means that there's pressure on the hull.

381

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

That extra pressure might translate into more impact force

382

00:21:08,000 --> 00:21:11,000

on the bow, potentially allowing us to split.

383

00:21:11,000 --> 00:21:14,000

The second reason is that the keel is now in water,

384

00:21:14,000 --> 00:21:16,000

helping to keep the boat straight

385

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

so you avoid possibly getting a glancing blow.

386

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

Now, why might it not make a difference?

387

00:21:22,000 --> 00:21:24,000

Well, think about it.

388

00:21:24,000 --> 00:21:25,000

The weight of the boat is the same.

389

00:21:25,000 --> 00:21:27,000

The speed is going to be the same.

390

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

Therefore, we're going to have the same amount of kinetic energy

391

00:21:30,000 --> 00:21:31,000

hitting that pole.

392

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

What do I think is going to happen?

393

00:21:34,000 --> 00:21:36,000

I don't think we're going to get a split.

394

00:21:36,000 --> 00:21:38,000

At least not at 25.

395

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

Grants skeptical, but after their cursed morning,

396

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

Tori is hoping they can actually push the boat out.

397

00:21:45,000 --> 00:21:49,000

Alright, there should be one word going through your guys' heads right now.

398

00:21:49,000 --> 00:21:51,000

And that's bifurcation.

399

00:21:51,000 --> 00:21:54,000

But while testing this myth afloat, split the boat.

400

00:21:55,000 --> 00:21:57,000

Alright, the boat's in place.

401

00:21:57,000 --> 00:21:58,000

Channel markers up.

402

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

This is bifurcated boat take two.

403

00:22:01,000 --> 00:22:02,000

The myth that he's split it.

404

00:22:02,000 --> 00:22:05,000

In three, two, one, hit it.

405

00:22:06,000 --> 00:22:08,000

The tow boat's accelerating.

406

00:22:08,000 --> 00:22:10,000

And the myth that he's split takes off.

407

00:22:10,000 --> 00:22:12,000

Press the boat.

408

00:22:12,000 --> 00:22:14,000

The rope's tensing.

409

00:22:14,000 --> 00:22:15,000

Looks away.

410

00:22:15,000 --> 00:22:16,000

Oh, here it comes.

411

00:22:16,000 --> 00:22:17,000

Wow, look at the light.

412

00:22:17,000 --> 00:22:21,000

Slowly speeding up to the mythical 25 miles per hour.

413

00:22:21,000 --> 00:22:23,000

Here comes the motor.

414

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

That looks so crazy.

415

00:22:24,000 --> 00:22:25,000

Ghost boat.

416

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

It's beautiful.

417

00:22:27,000 --> 00:22:30,000

But will the channel marker finally make its mark?

418

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

Come on, come on, come on, come on.

419

00:22:32,000 --> 00:22:33,000

Come on.

420

00:22:33,000 --> 00:22:35,000

Here it goes.

421

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

Straight for the pier.

422

00:22:39,000 --> 00:22:40,000

Whoa!

423

00:22:40,000 --> 00:22:42,000

What the heck?

424

00:22:46,000 --> 00:22:48,000

We just took the pillar down.

425

00:22:48,000 --> 00:22:50,000

That was the wrong thing to split.

426

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

The marker just got split.

427

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

And the boat's in there going.

428

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

I didn't see that one coming.

429

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

I didn't see that coming either.

430

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

That's not how it happened in the myth.

431

00:23:02,000 --> 00:23:04,000

That was a good shot though.

432

00:23:04,000 --> 00:23:06,000

It hit it right on the bow.

433

00:23:06,000 --> 00:23:09,000

But it did not split the boat in half.

434

00:23:09,000 --> 00:23:11,000

That is the most important thing.

435

00:23:11,000 --> 00:23:12,000

That's important thing.

436

00:23:12,000 --> 00:23:15,000

Important because in that shocking split second impact,

437

00:23:15,000 --> 00:23:17,000

the tables on this myth turn.

438

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

The marker bifurcated.

439

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

And the myth that he's split refused to live up to its name once again.

440

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

So the whole reason for this revisit is that fans said that without water,

441

00:23:28,000 --> 00:23:30,000

our original tests were invalid.

442

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

You know what?

443

00:23:31,000 --> 00:23:32,000

They were right.

444

00:23:32,000 --> 00:23:36,000

See, the resistance of the water kept the boat going straight on impact

445

00:23:36,000 --> 00:23:38,000

without glancing off.

446

00:23:38,000 --> 00:23:42,000

However, the energy of the impact caused the pole to break and not the boat.

447

00:23:42,000 --> 00:23:45,000

So ultimately, it's the same result.

448

00:23:45,000 --> 00:23:47,000

The busted myth.

449

00:23:47,000 --> 00:23:49,000

Just a slightly different way of getting there.

450

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

Now they say the two of the happiest days of a boat owner's life

451

00:23:53,000 --> 00:23:55,000

is the day he buys the boat and the day he sells it.

452

00:23:55,000 --> 00:23:58,000

But I won't be happy until we cut that boat in half.

453

00:23:58,000 --> 00:24:01,000

Yep, it ain't over until the myth that he split splits.

454

00:24:03,000 --> 00:24:05,000

One.

455

00:24:05,000 --> 00:24:08,000

Can you paint a room with a boom?

456

00:24:08,000 --> 00:24:11,000

Well, after a little trial and error,

457

00:24:11,000 --> 00:24:14,000

it looks like I need a little bit more work on my nozzle.

458

00:24:14,000 --> 00:24:18,000

Each of the myth busters have come up with a plan to find out.

459

00:24:21,000 --> 00:24:25,000

Down at the range, it's time to test the state of their art.

460

00:24:25,000 --> 00:24:27,000

I don't know what Adam's been up to,

461

00:24:27,000 --> 00:24:29,000

but I've had my hands full building my paint bomb,

462

00:24:29,000 --> 00:24:32,000

and I didn't have time to build a room to paint.

463

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

So we brought in a team of carpenters,

464

00:24:34,000 --> 00:24:40,000

and they put this 8-foot high by 12-foot square room together as our blank canvas.

465

00:24:40,000 --> 00:24:42,000

The canvas is prime.

466

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

Here we go.

467

00:24:43,000 --> 00:24:48,000

But strangely, Adam's not unloading his device anywhere near it.

468

00:24:48,000 --> 00:24:52,000

Allow me to introduce the snowflake, my painting machine.

469

00:24:52,000 --> 00:24:56,000

It is named after both its hexagonal design and its uniqueness.

470

00:24:56,000 --> 00:25:00,000

And its design is informed by exactly what I learned out here on the bomb range earlier this week.

471

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

And this is the result.

472

00:25:02,000 --> 00:25:05,000

Some might feel like I have broken the rules with this design.

473

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

Clearly, Adam's up to something.

474

00:25:08,000 --> 00:25:13,000

And as he welds the final touches to the snowflake, Jamie's confused.

475

00:25:13,000 --> 00:25:15,000

I'm guessing the paint goes in the middle.

476

00:25:15,000 --> 00:25:17,000

Yep, right along with the explosives.

477

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

So, these things are in the way.

478

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

What are they supposed to disperse the paint or something?

479

00:25:21,000 --> 00:25:24,000

Nope, these panels are exactly where I want them to be.

480

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

Well, how are you going to paint the house?

481

00:25:26,000 --> 00:25:27,000

I'm not going to paint the house.

482

00:25:27,000 --> 00:25:30,000

I'm going to paint art that goes in the house.

483

00:25:30,000 --> 00:25:33,000

Oh, paintings with explosives.

484

00:25:33,000 --> 00:25:34,000

Yeah.

485

00:25:34,000 --> 00:25:36,000

I thought I'm the one that's supposed to cheat.

486

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

Yeah, I thought I'd steal your thunder this time.

487

00:25:39,000 --> 00:25:43,000

Usually, it's the underhanded pineapple who decides to bend the rules.

488

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

And stack the odds in his favor.

489

00:25:48,000 --> 00:25:55,000

But after 10 years, you clearly all that devious designing has rubbed off on Adam.

490

00:25:55,000 --> 00:26:01,000

Well, this all started when I was out here at the bomb range doing my preliminary tests of painting

and explosives.

491

00:26:01,000 --> 00:26:05,000

I really, really liked the patterns that I was getting on my target board.

492

00:26:05,000 --> 00:26:08,000

And I thought, what if we made art?

493

00:26:08,000 --> 00:26:11,000

I'm still technically painting with explosives.

494

00:26:11,000 --> 00:26:13,000

I just figured I'd do it.

495

00:26:13,000 --> 00:26:17,000

I just figured Jamie was going to go whole hog on getting that room covered with paint.

496

00:26:17,000 --> 00:26:19,000

And I could kind of do my own thing.

497

00:26:19,000 --> 00:26:21,000

And that's what I did.

498

00:26:21,000 --> 00:26:28,000

Now it's time for the snowflake to make its kinetic art debut with six marbles of C4 and some paint.

499

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

I call this my second electric spring.

500

00:26:32,000 --> 00:26:33,000

I'm ready to go.

501

00:26:33,000 --> 00:26:34,000

Let's get the safety.

502

00:26:34,000 --> 00:26:35,000

All right.

503

00:26:35,000 --> 00:26:37,000

You ready, sir?

504

00:26:37,000 --> 00:26:38,000

I'm ready.

505

00:26:38,000 --> 00:26:40,000

All right, here we go.

506

00:26:40,000 --> 00:26:47,000

Painting with explosives to make some all in three, two, one.

507

00:26:47,000 --> 00:26:50,000

Wow, that was quick.

508

00:26:50,000 --> 00:26:52,000

It was quick.

509

00:26:52,000 --> 00:26:57,000

But when you slow the explosion to a thousand frames per second.

510

00:26:57,000 --> 00:26:59,000

Wow.

511

00:26:59,000 --> 00:27:01,000

That is insane.

512

00:27:01,000 --> 00:27:03,000

It's also beautiful.

513

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

That's a piece of art in and of itself.

514

00:27:05,000 --> 00:27:07,000

It looks like a cloud's head exploded.

515

00:27:07,000 --> 00:27:12,000

That is the loveliest thing I have ever seen.

516

00:27:12,000 --> 00:27:18,000

But did that explosive pop of color create pop art?

517

00:27:18,000 --> 00:27:23,000

That's beautiful.

518

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

All right, there's one.

519

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

Oh, it's gorgeous.

520

00:27:28,000 --> 00:27:29,000

It's beautiful.

521

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

The tail of destruction reeked on the ground.

522

00:27:32,000 --> 00:27:33,000

It's beautiful.

523

00:27:33,000 --> 00:27:36,000

The tail of destruction reeked on the canvas.

524

00:27:36,000 --> 00:27:39,000

As Adam canvases his canvases.

525

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

Oh, yeah.

526

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

That's really nice.

527

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

It's clear that all six were mostly covered with paint.

528

00:27:45,000 --> 00:27:49,000

Well, I don't know much about art, but I know I like making it with explosives.

529

00:27:49,000 --> 00:27:51,000

Well, two of them have some nice colors going.

530

00:27:51,000 --> 00:27:53,000

They show some promise.

531

00:27:53,000 --> 00:27:57,000

Maybe you could take an art class or something.

532

00:27:57,000 --> 00:27:59,000

I'm very pleased.

533

00:27:59,000 --> 00:28:00,000

I'm very pleased.

534

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

But while the results of Adam's art, Detto, are a little muddy,

535

00:28:04,000 --> 00:28:09,000

it's the process that was beautiful.

536

00:28:09,000 --> 00:28:10,000

Nice.

537

00:28:10,000 --> 00:28:12,000

Can't wait to see what Jamie comes up with.

538

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

Top that, Heinemann.

539

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

Next, will a rocket sled close the case on this unsolved mystery?

540

00:28:19,000 --> 00:28:20,000

This is it, man.

541

00:28:20,000 --> 00:28:22,000

Hopefully we can cut this boat in half.

542

00:28:22,000 --> 00:28:26,000

And can Jamie's paintball deck the wall?

543

00:28:26,000 --> 00:28:29,000

I'd like to watch this one from the bunker.

544

00:28:31,000 --> 00:28:34,000

Do not try what you are about to see at home.

545

00:28:34,000 --> 00:28:36,000

Or what you call experts.

546

00:28:49,000 --> 00:28:51,000

Rocket sled track.

547

00:28:51,000 --> 00:28:53,000

You guys ready for this?

548

00:28:53,000 --> 00:28:55,000

There's one thing I like.

549

00:28:55,000 --> 00:28:56,000

It's fast.

550

00:28:56,000 --> 00:28:57,000

Let's do it.

551

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

What do we want to fly a wall down a track and pull for as a car?

552

00:29:04,000 --> 00:29:08,000

We want to pause the rearrangement nearly 400 miles an hour.

553

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

That was one of the coolest things I've ever seen.

554

00:29:11,000 --> 00:29:16,000

We come here because A, there's no one around to get on the harm's way.

555

00:29:16,000 --> 00:29:20,000

And B, nobody does extreme like our friends in New Mexico Tech.

556

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

And today, there's going to be no exception.

557

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

So why are we taking it to these extremes and using a rocket powered sled?

558

00:29:28,000 --> 00:29:33,000

Well, we tested the myth just like it stated, crashing a boat at 25 miles an hour into a channel market.

559

00:29:33,000 --> 00:29:35,000

But we couldn't get it to split in half.

560

00:29:35,000 --> 00:29:37,000

So the myth is busted.

561

00:29:37,000 --> 00:29:40,000

But now it's my favorite part of the show where we replicate the results.

562

00:29:40,000 --> 00:29:42,000

Now if it's worth doing, it's worth overdoing.

563

00:29:42,000 --> 00:29:44,000

And I would have to say this is overdoing.

564

00:29:44,000 --> 00:29:46,000

Now this is the boat that we're going to use.

565

00:29:46,000 --> 00:29:50,000

It's not the exact same boat as the one in the myth, but it's going to do just fine.

566

00:29:50,000 --> 00:29:52,000

It will be weighted the same.

567

00:29:52,000 --> 00:29:54,000

It's made of the same materials.

568

00:29:54,000 --> 00:29:58,000

And the center of the bow is still hitting the center of the pole.

569

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

There's only one difference.

570

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

Yep. And the reason for that difference is very familiar to the myth busters.

571

00:30:04,000 --> 00:30:05,000

Cable bra.

572

00:30:05,000 --> 00:30:06,000

F***.

573

00:30:06,000 --> 00:30:09,000

And inside NMT's high tech classroom.

574

00:30:09,000 --> 00:30:10,000

Hey, Van.

575

00:30:10,000 --> 00:30:11,000

Welcome back.

576

00:30:11,000 --> 00:30:13,000

Van Romero has the solution.

577

00:30:13,000 --> 00:30:16,000

Flying the boat down a track is a little tricky.

578

00:30:16,000 --> 00:30:19,000

Getting a boat to go 100, 150 miles an hour.

579

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

What's going to happen with a fast acceleration is it's probably going to fly apart.

580

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

But we do have another option.

581

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

Instead of moving the boat down the track, let's look at moving the piling down the track.

582

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

Awesome.

583

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

If we do that, we can accelerate this pipe as fast as we want.

584

00:30:34,000 --> 00:30:35,000

Won't have any problems.

585

00:30:35,000 --> 00:30:36,000

The physics is identical.

586

00:30:36,000 --> 00:30:39,000

As long as we get the closing speed to match with the closing speed that we want.

587

00:30:39,000 --> 00:30:45,000

The rolls will be reversed and the pylon will hit the boat, traveling at the top speed of a speed boat.

588

00:30:45,000 --> 00:30:50,000

So it's time to trek back to the track and prepare the sled.

589

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

The first thing you'll probably notice about the pole is unlike our previous experiment,

590

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

it's metal instead of wood.

591

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

The reason for this is that at the speeds we're talking about, wood would simply shatter.

592

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

Where we know the metal is not going to shatter.

593

00:31:03,000 --> 00:31:06,000

The more important kinetic energy it's going to generate.

594

00:31:06,000 --> 00:31:09,000

The pole plus the sled weighs almost 600 pounds.

595

00:31:09,000 --> 00:31:12,000

It's going to be traveling at really 200 miles per hour.

596

00:31:12,000 --> 00:31:16,000

See the key to any good rocket sled experiment?

597

00:31:16,000 --> 00:31:17,000

Lubrication.

598

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

That's the kind of kinetic energy we need to give this boat split a fighting chance.

599

00:31:22,000 --> 00:31:26,000

But first, the marker needs a maritime makeover.

600

00:31:26,000 --> 00:31:28,000

So we're out here in the middle of New Mexico.

601

00:31:28,000 --> 00:31:35,000

There's not a lot of ocean around so we decided to make it more marine like so we brought a seagull.

602

00:31:35,000 --> 00:31:40,000

Is that the most irritating thing you've ever heard?

603

00:31:40,000 --> 00:31:46,000

With the pole sitting pretty, it's the boat's turn to get nautical.

604

00:31:46,000 --> 00:31:47,000

Ocean's clear.

605

00:31:47,000 --> 00:31:51,000

We're going to add a little water to this boat just to keep the fans happy.

606

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

They really like bifurcated boats to be on water.

607

00:31:54,000 --> 00:31:58,000

With the Methodist Split 3 in commission, they hoist the sails.

608

00:31:58,000 --> 00:32:02,000

So it's floating on air.

609

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

Well, there's something you don't see every day.

610

00:32:04,000 --> 00:32:10,000

The boat's in place, now it's time to load up the sled with rockets and see if we can split this boat in half.

611

00:32:10,000 --> 00:32:13,000

Three, two, one.

612

00:32:17,000 --> 00:32:21,000

Devious Adam moved the goalposts.

613

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

Wow, that was quick.

614

00:32:23,000 --> 00:32:26,000

And created art with explosives.

615

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

That's beautiful.

616

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

But now it's the Heinemann's turn to paint and detonate.

617

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

We need that.

618

00:32:34,000 --> 00:32:35,000

I do.

619

00:32:35,000 --> 00:32:37,000

It's time to load it up.

620

00:32:37,000 --> 00:32:40,000

The myth requires 100% wall coverage.

621

00:32:40,000 --> 00:32:43,000

So Jamie's reducing his boom.

622

00:32:43,000 --> 00:32:48,000

On our first test we used C4, which is a very fast, high explosive.

623

00:32:48,000 --> 00:32:53,000

This time we've slowed it down to about a quarter or a fifth of that speed with ditching dynamite.

624

00:32:53,000 --> 00:32:57,000

This stuff goes off at about 5,000 feet per second.

625

00:32:57,000 --> 00:33:01,000

And I'm hoping that it'll have a lot more push with it.

626

00:33:01,000 --> 00:33:04,000

Maybe it'll push some paint, but will it impress Adam?

627

00:33:04,000 --> 00:33:07,000

No freaking way.

628

00:33:07,000 --> 00:33:08,000

What?

629

00:33:08,000 --> 00:33:12,000

This looks like it weighs 6,000 pounds.

630

00:33:12,000 --> 00:33:15,000

Yeah, it's only 3,500 or so.

631

00:33:15,000 --> 00:33:16,000

Oh my god.

632

00:33:16,000 --> 00:33:18,000

How does this work?

633

00:33:18,000 --> 00:33:22,000

Well, you put the top on and you bolt it down.

634

00:33:22,000 --> 00:33:28,000

You pour paint in, it fills up, the dynamite goes off and it shoots the paint out through the jets.

635

00:33:28,000 --> 00:33:30,000

It's okay with you.

636

00:33:30,000 --> 00:33:32,000

I'd like to watch this one from the bunker.

637

00:33:32,000 --> 00:33:35,000

Yeah, this is a dangerous thing.

638

00:33:35,000 --> 00:33:37,000

It is a beautiful thing.

639

00:33:37,000 --> 00:33:39,000

Nice work.

640

00:33:39,000 --> 00:33:44,000

And with the dynamite in position, Jamie's planning to paint the town red.

641

00:33:44,000 --> 00:33:49,000

Who knows what the right paint thickness will be for this particular spray paint job.

642

00:33:49,000 --> 00:33:56,000

I mean, normally you thin paint a little bit when you put it in a sprayer, so I figure this wouldn't be any different.

643

00:33:56,000 --> 00:34:02,000

And in any case, the thinner the paint, the more it's going to break apart when it's sprayed.

644

00:34:02,000 --> 00:34:05,000

And why not hedge my bet?

645

00:34:05,000 --> 00:34:13,000

Well, with the paint payload on board, the sphere is locked and loaded.

646

00:34:13,000 --> 00:34:14,000

Congratulations.

647

00:34:14,000 --> 00:34:17,000

After all these years, you finally made the Death Star.

648

00:34:17,000 --> 00:34:22,000

Well, let's get out of here before it is actually the Death Star.

649

00:34:22,000 --> 00:34:29,000

The circle is now complete, so it's time to return to base and use the force.

650

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

But can it paint an entire room?

651

00:34:32,000 --> 00:34:41,000

Okay, painting with explosives, the paintball in three, two, one, go.

652

00:34:43,000 --> 00:34:44,000

What happened?

653

00:34:46,000 --> 00:34:47,000

Let's go check it out.

654

00:34:47,000 --> 00:34:48,000

All right.

655

00:34:55,000 --> 00:34:56,000

Wow.

656

00:34:58,000 --> 00:35:01,000

That wasn't exactly what I had in mind.

657

00:35:03,000 --> 00:35:09,000

But you've made a four-wall Rorschach test.

658

00:35:09,000 --> 00:35:13,000

Jamie, what do you see when you look at this block?

659

00:35:13,000 --> 00:35:15,000

I see Valentine's Day.

660

00:35:15,000 --> 00:35:21,000

Valentine's Day? Well, that's not the... Wow, that's quite romantic of you. Who knew?

661

00:35:21,000 --> 00:35:29,000

The death ball sprayed a red mist over the walls, but it looks less solid color and more Hollywood horror.

662

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

All that work and this is what we get.

663

00:35:33,000 --> 00:35:37,000

Well, it's food for thought, isn't it?

664

00:35:40,000 --> 00:35:45,000

And even though he didn't coat all of the walls, Jamie's not disappointed.

665

00:35:45,000 --> 00:35:51,000

Well, I'm tickled pink that my ball actually withstood the high explosive.

666

00:35:51,000 --> 00:35:54,000

That was the main thing that I was worried about.

667

00:35:54,000 --> 00:35:57,000

And the paint actually came out the jets quite nicely.

668

00:35:57,000 --> 00:36:01,000

They did what they were supposed to. They directed the paint at the walls.

669

00:36:01,000 --> 00:36:07,000

And you can even see that the jets were starting to shape the spray the way that I wanted to,

670

00:36:07,000 --> 00:36:10,000

so that it didn't end up all right in the middle.

671

00:36:10,000 --> 00:36:16,000

But as far as painting a house with explosives, it needs a little work.

672

00:36:19,000 --> 00:36:22,000

Final analysis, painting with explosives. What do you think?

673

00:36:22,000 --> 00:36:28,000

Well, we made some fine art today, but as far as painting houses, it's just not practical.

674

00:36:28,000 --> 00:36:33,000

No, it's not going to replace house painters any time soon. It's got to be busted. Let's go home.

675

00:36:35,000 --> 00:36:40,000

It would actually be kind of nice to be able to paint your house in a millisecond, wouldn't it?

676

00:36:44,000 --> 00:36:45,000

After the break.

677

00:36:45,000 --> 00:36:51,000

After seven years of waiting to find out if we could actually bifurcate a boat, we're ready to go.

678

00:36:53,000 --> 00:36:57,000

Meanwhile, at a gallery somewhere in San Francisco.

679

00:36:58,000 --> 00:37:05,000

What are my bomb paintings about? Well, I mean, they're really about the universal themes of art.

680

00:37:05,000 --> 00:37:11,000

The explosive moment of inspiration, the randomness of our creation, the marks of detritus,

681

00:37:11,000 --> 00:37:16,000

we leave on others lives, but most of this just because I like to blow up. Yeah.

682

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

Deep in New Mexico, things are about to get fast.

683

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

So I heard you got some rockets for us.

684

00:37:38,000 --> 00:37:44,000

This is the most dangerous part of our day, loading the rockets onto the sled.

685

00:37:45,000 --> 00:37:51,000

It's dangerous. All right. In fact, it's so dangerous, it requires a costume change.

686

00:37:52,000 --> 00:37:59,000

This is an incredibly tense moment. The reason is that the rockets have their igniters pre-installed.

687

00:37:59,000 --> 00:38:06,000

So just by handling them, they could ignite and that would be a very, very bad thing.

688

00:38:07,000 --> 00:38:13,000

And the other thing that makes it difficult is that the ignition level is not very high.

689

00:38:13,000 --> 00:38:23,000

One volt at one amp. When you just walk around in wool clothing, you could generate a static charge of upwards of 40,000 volts.

690

00:38:23,000 --> 00:38:31,000

So that's why we have to remove anything that's not cotton and ground ourselves because we don't want these things going off.

691

00:38:31,000 --> 00:38:36,000

Yep, they're staying grounded because the power of these rockets could knock more than their socks off.

692

00:38:36,000 --> 00:38:44,000

To send this pylon down the track at 200 miles an hour, we are using vintage Korean War high velocity aircraft motors.

693

00:38:44,000 --> 00:38:52,000

That's going to give us the 200 miles an hour we need, 375 Gs and 12,000 pounds of thrust.

694

00:38:52,000 --> 00:38:55,000

It's going to annihilate the Mythety Split 3.

695

00:38:55,000 --> 00:39:03,000

Indeed, that pylon will be traveling at the maximum speed a super fast speedboat can go, which means there's no margin for error.

696

00:39:03,000 --> 00:39:05,000

To the bunker.

697

00:39:07,000 --> 00:39:15,000

Okay, so our high speed cameras are in place. We are ready to go. This is the moment of truth. What do I think is going to happen?

698

00:39:15,000 --> 00:39:24,000

Look, that's a fiberglass boat. It's a steel pole coming at it. That thing is going to shatter into a million pieces. Mark my words.

699

00:39:24,000 --> 00:39:32,000

Well, where the curse of the bifurcated boat is involved, nothing is certain. But they've cleared the decks.

700

00:39:32,000 --> 00:39:37,000

Alright, the pylon is loaded and hot. We've got our boat in place.

701

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

Batten down the hatches.

702

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

This is it, man. Finally, hopefully we can cut this boat in half.

703

00:39:43,000 --> 00:39:46,000

And now it's full steam ahead.

704

00:39:48,000 --> 00:39:52,000

Alright, rocket sled pylon versus boat.

705

00:39:52,000 --> 00:39:55,000

Three, two, one.

706

00:39:56,000 --> 00:40:01,000

It's going to be a bifurcation!

707

00:40:03,000 --> 00:40:05,000

It's going right down the needle!

708

00:40:05,000 --> 00:40:09,000

It's in! Finally! Awesome!

709

00:40:10,000 --> 00:40:15,000

Yep, it seems the curse has lifted and they finally split the boat.

710

00:40:15,000 --> 00:40:18,000

Finally, after all this time, we bifurcated a boat.

711

00:40:19,000 --> 00:40:21,000

Wait, you know what that shows me?

712

00:40:21,000 --> 00:40:23,000

That dude had to be going fast.

713

00:40:23,000 --> 00:40:25,000

Real fast. Yep.

714

00:40:28,000 --> 00:40:30,000

Let's go check out the carnage.

715

00:40:33,000 --> 00:40:37,000

Outside, it's clear that this ship is wrecked.

716

00:40:38,000 --> 00:40:42,000

I cannot tell you how happy I am that this boat is finally split.

717

00:40:42,000 --> 00:40:47,000

It's split in two. I mean, it's annihilated, but there is a clear division.

718

00:40:47,000 --> 00:40:50,000

The rocket sled does not disappoint.

719

00:40:51,000 --> 00:40:53,000

It does not.

720

00:40:53,000 --> 00:40:57,000

Reaching 200 miles per hour in only 200 feet,

721

00:40:58,000 --> 00:41:03,000

the rocket-powered pylon plowed into the prow, tossing the boat into the air,

722

00:41:03,000 --> 00:41:06,000

and leaving two halves in its way.

723

00:41:07,000 --> 00:41:11,000

Alright, so my prediction was that when the channel marker hit the boat,

724

00:41:11,000 --> 00:41:13,000

it would shatter into a million pieces.

725

00:41:13,000 --> 00:41:18,000

But as you can see here, it actually tore a hole almost all the way down the hole,

726

00:41:18,000 --> 00:41:21,000

leaving us in two pretty much intact halves.

727

00:41:21,000 --> 00:41:24,000

I'd have been happier to say that I was wrong.

728

00:41:24,000 --> 00:41:29,000

And it just goes to show that even a blunt object like our channel marker

729

00:41:29,000 --> 00:41:32,000

could turn into a knife when you add enough speed.

730

00:41:33,000 --> 00:41:36,000

There's no way that guy was going 25 miles an hour.

731

00:41:36,000 --> 00:41:38,000

We tried it over and over at 25.

732

00:41:38,000 --> 00:41:40,000

We tried it off-water, on-water.

733

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

It took 200 before it started to split it.

734

00:41:43,000 --> 00:41:48,000

We didn't even get a dent at 25.

735

00:41:48,000 --> 00:41:50,000

I think he might have been lying.

736

00:41:53,000 --> 00:41:59,000

Seven years in the making, four channel markers, three boats, a barge and a crane,

737

00:41:59,000 --> 00:42:03,000

but nothing could bifurcate the boat.

738

00:42:03,000 --> 00:42:08,000

Until now, with a rocket-powered sled.

739

00:42:09,000 --> 00:42:13,000

But it looks like this one's still busted.

740

00:42:17,000 --> 00:42:19,000

That was fun.

741

00:42:19,000 --> 00:42:21,000

What do you think we could put on the rocket sled next?

742

00:42:21,000 --> 00:42:22,000

I don't know.

743

00:42:22,000 --> 00:42:23,000

Maybe a bus.