

1

00:00:00,000 --> 00:00:02,200

I know it looks like we have fun on this show,

2

00:00:02,200 --> 00:00:05,000

but we spend weeks and sometimes months

3

00:00:05,000 --> 00:00:07,300

planning how to do our myths safely.

4

00:00:07,300 --> 00:00:10,400

So please, don't try this at home.

5

00:00:10,400 --> 00:00:13,900

...

6

00:00:13,900 --> 00:00:16,500

On this special episode of Mythbusters...

7

00:00:16,500 --> 00:00:20,700

...

8

00:00:20,700 --> 00:00:22,500

... we're putting the you...

9

00:00:22,500 --> 00:00:23,600

What's up, Mythbusters?

10

00:00:23,600 --> 00:00:25,700

... into YouTube.

11

00:00:25,700 --> 00:00:28,400

As the whole team takes a shot...

12

00:00:28,500 --> 00:00:31,300

... at the viral videos you want tested.

13

00:00:31,300 --> 00:00:34,300

I predict we're going to see some major carnage.

14

00:00:34,300 --> 00:00:38,600

First, Adam and Janie explore the explosive power of matches.

15

00:00:38,600 --> 00:00:40,000

...

16

00:00:40,000 --> 00:00:44,600

Then a rev-react to see if a spinning tire can really catch fire.

17

00:00:44,600 --> 00:00:48,200

We've got gasoline pouring on the tire while it's spinning.

18

00:00:48,200 --> 00:00:51,900

Finally, Carrie Grant and Tori go loony for Lego.

19

00:00:51,900 --> 00:00:52,700

Last break.

20

00:00:52,700 --> 00:00:54,000

Yeah!

21

00:00:54,000 --> 00:00:57,400

Testing one of the biggest YouTube videos of the year.

22

00:00:58,400 --> 00:01:01,400

The Lego Boulder of Doom.

23

00:01:01,400 --> 00:01:06,700

...

24

00:01:06,700 --> 00:01:08,400

Who are the Mythbusters?

25

00:01:08,400 --> 00:01:09,400

...

26

00:01:09,400 --> 00:01:10,400

Adam Savage.

27

00:01:10,400 --> 00:01:12,400

...

28

00:01:12,400 --> 00:01:13,700

And Jamie Heinemann.

29

00:01:13,700 --> 00:01:16,000

...

30

00:01:16,000 --> 00:01:19,800

Between them more than 30 years of special effects experience.

31

00:01:19,800 --> 00:01:21,500

The timing was perfect.

32

00:01:21,500 --> 00:01:22,900

Joining them...

33

00:01:22,900 --> 00:01:24,800

...

34

00:01:24,800 --> 00:01:25,800

Tori Bellegi.

35

00:01:25,800 --> 00:01:26,900

...

36

00:01:26,900 --> 00:01:28,000

And Carrie Byron.

37

00:01:28,000 --> 00:01:29,400

She-He look like me now.

38

00:01:29,400 --> 00:01:30,500

...

39

00:01:30,500 --> 00:01:32,100

They don't just tell the Myths...

40

00:01:32,100 --> 00:01:33,700

...

41

00:01:33,700 --> 00:01:35,800

... they put them to the test.

42

00:01:35,800 --> 00:01:37,100

...

43

00:01:37,100 --> 00:01:41,500

...

44

00:01:41,500 --> 00:01:43,600

...

45

00:01:43,600 --> 00:01:47,100

...

46

00:01:47,100 --> 00:01:50,400

First up, Adam and Jamie are in for a blast.

47

00:01:50,400 --> 00:01:52,600

A few months ago, we put a challenge to the fans.

48

00:01:52,600 --> 00:01:55,700

We said if they found an internet viral video that they wanted us to test,

49

00:01:55,700 --> 00:02:00,200

they could head over to the Mythbusters channel on YouTube and put the challenge to us.

50

00:02:00,200 --> 00:02:02,400

And I have to say the response has been overwhelming.

51

00:02:02,400 --> 00:02:04,800

We've been inundated with suggestions.

52

00:02:04,800 --> 00:02:06,500

Although some of them have been kind of weird.

53

00:02:06,500 --> 00:02:11,300

I mean, there was this one guy that insists that those vapor trails left by jets

54

00:02:11,300 --> 00:02:14,500

are actually toxic chemicals put there by the government.

55

00:02:14,500 --> 00:02:15,200

Yeah.

56

00:02:15,200 --> 00:02:18,500

And some of them were totally impossible to test, like cold fusion.

57

00:02:18,500 --> 00:02:18,900

Yeah.

58

00:02:18,900 --> 00:02:21,400

But some of the suggestions were right over our alley.

59

00:02:21,400 --> 00:02:22,500

Like what?

60

00:02:22,500 --> 00:02:25,500

Well, our fire-loving fans want us to start with a bang.

61

00:02:25,800 --> 00:02:26,900

Give me more.

62

00:02:26,900 --> 00:02:30,600

Well, this guy sent us this video of a bucket and it has a bunch of matches in it.

63

00:02:30,600 --> 00:02:31,100

He likes it.

64

00:02:31,100 --> 00:02:32,900

It makes a big fireball.

65

00:02:32,900 --> 00:02:34,200

Ha ha ha ha!

66

00:02:34,200 --> 00:02:35,200

That's perfect.

67

00:02:36,200 --> 00:02:37,300

What's up Mythbusters?

68

00:02:37,300 --> 00:02:42,600

I was looking on YouTube and I found a video where some guys got 30,000 match heads

69

00:02:42,600 --> 00:02:45,900

and they put them all together and they made this great big fireball.

70

00:02:45,900 --> 00:02:50,700

And I thought you guys could test it out, see if you can really do that with matches.

71

00:02:50,700 --> 00:02:55,200

According to the video, the backyard blast was made using a tin bucket

72

00:02:55,200 --> 00:02:59,300

with 30,000 match heads and one slow-burning fuse.

73

00:03:01,300 --> 00:03:06,700

But fans want to know, did match heads alone create this intense inferno?

74

00:03:07,500 --> 00:03:10,500

The video says that they used 30,000 match heads.

75

00:03:10,500 --> 00:03:12,000

Now that's going to take a while.

76

00:03:12,000 --> 00:03:12,600

Yep.

77

00:03:12,600 --> 00:03:14,700

There's nothing to do though, but get started.

78

00:03:14,700 --> 00:03:15,200

Okay.

79

00:03:16,800 --> 00:03:22,000

Instead of wooden matches, Adam and Jamie are slicing and dicing paper matchbooks.

80

00:03:22,000 --> 00:03:26,000

Judging by that bucket, I'd say I've only got a drop in the bucket.

81

00:03:26,600 --> 00:03:30,000

But what's key is the match heads themselves.

82

00:03:30,000 --> 00:03:34,300

All match heads use a potent chemical, potassium chlorate.

83

00:03:34,300 --> 00:03:40,000

So potent it's found in gunpowder and was widely used in early explosives.

84

00:03:40,000 --> 00:03:44,300

But is it potent enough to create the fireball of the fable?

85

00:03:44,300 --> 00:03:49,000

Well, feeling frisky after a full 10-hour day of match decapitation,

86

00:03:49,000 --> 00:03:51,500

the Mythbusters are itching to find out.

87

00:03:52,000 --> 00:03:53,700

And instead of doing it in our backyard,

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00:03:53,700 --> 00:03:55,700

well, we're going to do it in one of our favorite locations,

89

00:03:55,700 --> 00:03:59,000

almost our second shop, the Alameda County Sharks Bombing Range.

90

00:03:59,000 --> 00:04:04,500

The bomb range may seem like overkill, but it's better to be safe than scorched.

91

00:04:04,500 --> 00:04:06,000

30,000 match heads.

92

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

Yeah.

93

00:04:07,000 --> 00:04:09,500

Now, has anyone got a light?

94

00:04:09,500 --> 00:04:12,000

This right here is slow-burning cannon fuse.

95

00:04:12,000 --> 00:04:15,000

It seems to be what they're using in the video.

96

00:04:15,000 --> 00:04:19,000

It burns at about one foot every 30 seconds.

97

00:04:19,000 --> 00:04:21,500

And we just happen to have somewhere on the shop.

98

00:04:22,000 --> 00:04:25,000

While Adam gets in touch with his inner pyro,

99

00:04:25,000 --> 00:04:28,000

Jamie explores the burning issue of match safety.

100

00:04:28,000 --> 00:04:31,000

You've got potassium chlorate, which is the fuel,

101

00:04:31,000 --> 00:04:35,000

and then you have phosphorus, which is what makes it sensitive enough to ignite.

102

00:04:35,000 --> 00:04:40,000

Now, in the strike anywhere, that phosphorus is on the white tip right here.

103

00:04:40,000 --> 00:04:41,000

And so you can strike it anywhere.

104

00:04:41,000 --> 00:04:44,000

The two chemicals combine and you've got a fire.

105

00:04:44,000 --> 00:04:46,000

And the safety matches, though.

106

00:04:46,000 --> 00:04:49,000

The phosphorus is in the striker pad right there,

107

00:04:49,000 --> 00:04:52,000

and the potassium chlorate is in the match.

108

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

You combine the two and they both go off.

109

00:04:54,000 --> 00:04:57,000

Now, we're going to be using safety matches for our experiment,

110

00:04:57,000 --> 00:04:59,000

because, well, they're safer.

111

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

Safer, except when you strike 30,000 at once.

112

00:05:03,000 --> 00:05:08,000

But is this mayhem just about matches, or did other accelerants fan the flame?

113

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

Well, these behave the way they did in the YouTube clip.

114

00:05:11,000 --> 00:05:15,000

Well, that's 20.

115

00:05:15,000 --> 00:05:18,000

We're going to be igniting 30,000.

116

00:05:18,000 --> 00:05:21,000

Will they create a flame age or 10 feet high?

117

00:05:21,000 --> 00:05:23,000

Only one way to find out.

118

00:05:23,000 --> 00:05:26,000

I love it when common materials are dangerous.

119

00:05:26,000 --> 00:05:27,000

Go ahead and light it.

120

00:05:30,000 --> 00:05:32,000

I like using the fuse more than almost anything else.

121

00:05:32,000 --> 00:05:34,000

So much anticipation.

122

00:05:34,000 --> 00:05:36,000

The fuse burns at two feet per minute.

123

00:05:36,000 --> 00:05:40,000

So four feet and two minutes of anticipation later.

124

00:05:40,000 --> 00:05:41,000

Wow!

125

00:05:41,000 --> 00:05:42,000

Nice!

126

00:05:42,000 --> 00:05:43,000

That was cool.

127

00:05:43,000 --> 00:05:44,000

That was pretty good.

128

00:05:44,000 --> 00:05:47,000

It's a spark-tacular result.

129

00:05:47,000 --> 00:05:50,000

A 10 feet tall Roman candle.

130

00:05:50,000 --> 00:05:54,000

Burn for burn, it's the same as the blast in the YouTube video.

131

00:05:54,000 --> 00:05:56,000

The high-speed camera confirms it.

132

00:05:56,000 --> 00:05:57,000

It's a match.

133

00:05:57,000 --> 00:05:59,000

Give or take, 30,000.

134

00:05:59,000 --> 00:06:02,000

That is about the correct height for what it showed in YouTube.

135

00:06:02,000 --> 00:06:04,000

Oh, yes, look at that.

136

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

Wow!

137

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

In other words, it's myth confirmed.

138

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

But before you can say, don't try this at home,

139

00:06:10,000 --> 00:06:15,000

Adam and Jamie are already hatching a more powerful pyrotechnic plan.

140

00:06:18,000 --> 00:06:19,000

You know we can't leave it there.

141

00:06:19,000 --> 00:06:20,000

Oh, I know.

142

00:06:27,000 --> 00:06:31,000

But now, Carrie Grant and Tori are going to keep things rolling.

143

00:06:31,000 --> 00:06:33,000

Okay, so what have we got?

144

00:06:33,000 --> 00:06:36,000

Okay, so this next one is one of the most requested viral videos.

145

00:06:36,000 --> 00:06:38,000

And it's amazingly large.

146

00:06:38,000 --> 00:06:41,000

And by amazingly large, I mean ridiculous.

147

00:06:41,000 --> 00:06:42,000

Alright, spit it out.

148

00:06:42,000 --> 00:06:46,000

Alright, it's a viral video that involves a giant ball of Lego

149

00:06:46,000 --> 00:06:48,000

rolling down the streets of San Francisco.

150

00:06:48,000 --> 00:06:50,000

I've seen that one.

151

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

Yes, along with two million other people.

152

00:06:52,000 --> 00:06:56,000

But for those who haven't, it involves these guys who built this 7 foot diameter,

153

00:06:56,000 --> 00:07:00,000

giant chunky ball of Lego, apparently made out of 5 million pieces.

154

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

They roll it down the hill Indiana Jones style.

155

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

It stays completely intact, gains speed, hits a car, and does no damage.

156

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

Alright, so the fans want us to test if this is real, or a bunch of Lego lies.

157

00:07:12,000 --> 00:07:13,000

Exactly.

158

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

This Indiana Jones Lego Boulder was in the top three most requested videos

159

00:07:20,000 --> 00:07:22,000

for this YouTube special.

160

00:07:22,000 --> 00:07:28,000

Fans want to know if a giant ball of bricks will really roll down a road like this.

161

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

And then maybe hit a car.

162

00:07:30,000 --> 00:07:34,000

Well, Carrie Grant and Tori think there may be a few pieces missing to this myth.

163

00:07:35,000 --> 00:07:40,000

You know, it's hard to tell whether or not this ball is real by just looking at the video.

164

00:07:40,000 --> 00:07:45,000

Yeah, actually, most of our fans think it's fake, but I think we can actually test this on three parameters.

165

00:07:45,000 --> 00:07:51,000

Number one, would a ball that size contain 5 million Lego just like the video says?

166

00:07:51,000 --> 00:07:55,000

Number two, could you roll it around that easily or to be too heavy?

167

00:07:55,000 --> 00:08:00,000

And number three, would it react the way it did in the video, you know, rolling down the hill and hitting the car?

168

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

Yeah, and I think that last point is the most interesting because watching the video hardly any pieces of Lego come off the ball as it's rolling down the hill.

169

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

And after it hits the car, it does hardly any damage.

170

00:08:09,000 --> 00:08:12,000

Okay, first up, I think we need to talk to some experts.

171

00:08:12,000 --> 00:08:13,000

Who are you gonna go find some eight year olds?

172

00:08:13,000 --> 00:08:17,000

No, I think we need to go to Lego Land. Lego Land. Let's go.

173

00:08:17,000 --> 00:08:18,000

Brilliant.

174

00:08:30,000 --> 00:08:32,000

And that's what we call the most interesting part of Lego Land.

175

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

Because no carnage.

176

00:08:34,000 --> 00:08:40,000

But before all that, their first task is to find out how to even build a seven foot Lego sphere in the first place.

177

00:08:40,000 --> 00:08:43,000

And it looks like they've come to the right place.

178

00:08:43,000 --> 00:08:47,000

Legos aren't the only things they have here. They also have rides. Let's go.

179

00:08:47,000 --> 00:08:51,000

Oh, yeah.

180

00:08:51,000 --> 00:08:56,000

Yes, I'm really starting to understand Lego.

181

00:08:57,000 --> 00:09:03,000

Eventually the teams stop monkeying around and track down master model designer Gary McIntyre.

182

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

So is building a sphere as easy as it sounds?

183

00:09:06,000 --> 00:09:14,000

I mean, to do a Lego sphere is pretty much just a series of circles working on three dimensions, right?

184

00:09:14,000 --> 00:09:21,000

So you're gonna want to maintain circles going on the X, Y and Z axis all at the same time.

185

00:09:21,000 --> 00:09:24,000

And that will pretty much make a sphere simple.

186

00:09:24,000 --> 00:09:29,000

And they thought Lego was child's play. It's clear the team needs Gary's help.

187

00:09:29,000 --> 00:09:33,000

How would you feel about coming back and helping us build this ball? That sounds like fun.

188

00:09:33,000 --> 00:09:36,000

Yeah.

189

00:09:36,000 --> 00:09:46,000

To get the ball rolling, the team first begs and borrows every spare brick across the country, cleaning out Lego and Lego Land.

190

00:09:46,000 --> 00:09:50,000

It is the strategic North American Lego supply.

191

00:09:50,000 --> 00:09:53,000

Yeah.

192

00:09:53,000 --> 00:09:55,000

You guys are losing your mind.

193

00:09:55,000 --> 00:09:57,000

Maybe.

194

00:09:57,000 --> 00:10:02,000

But in doing so, they've only come up with half a million bricks, still over four million shorts.

195

00:10:02,000 --> 00:10:05,000

Have the guys bitten off more than they can chew?

196

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

I had too many Legos for two last night.

197

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

Coming up, will the Lego Ball deliver doom and destruction?

198

00:10:12,000 --> 00:10:15,000

Let's chalk it up so it doesn't go rolling down the hill.

199

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

But first, Adam and Jamie put their feet down in the spinning tire of fire.

200

00:10:23,000 --> 00:10:25,000

Oh!

201

00:10:32,000 --> 00:10:37,000

It's the Mythbusters YouTube special, and it's time to turn up the heat.

202

00:10:37,000 --> 00:10:40,000

I think I know what's coming up. Give me a hint.

203

00:10:40,000 --> 00:10:42,000

Well, you know when you burn rubber on a car?

204

00:10:42,000 --> 00:10:43,000

Yeah.

205

00:10:43,000 --> 00:10:44,000

You know where there's smoke, right?

206

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

They say where there's smoke. There's fire. That's what this next myth is about.

207

00:10:48,000 --> 00:10:53,000

The YouTube posting that posits if you spin a car tire fast enough and for long enough it'll

actually catch fire.

208

00:10:53,000 --> 00:10:55,000

You bet. Check this video out.

209

00:10:55,000 --> 00:10:56,000

Okay.

210

00:10:56,000 --> 00:10:58,000

You're Mythbusters.

211

00:10:58,000 --> 00:11:03,000

I want to know, can you ever spin a car's wheels so fast that the tires catch fire?

212

00:11:03,000 --> 00:11:05,000

Please test this.

213

00:11:07,000 --> 00:11:12,000

The special effects won't win at Oscar, but it's clear what this web rev had once.

214

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

The video looks a little dodgy to me, but I like the idea. How do you want to test it?

215

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

I can't seem to get so much simpler than this one.

216

00:11:20,000 --> 00:11:22,000

We get a nice powerful car and a bunch of tires.

217

00:11:22,000 --> 00:11:25,000

Secure the brakes in the car so it doesn't get out of control.

218

00:11:25,000 --> 00:11:28,000

Some temperature monitoring equipment for seeing how hot it's getting,

219

00:11:28,000 --> 00:11:32,000

and we spin and burn those tires until we get some fire.

220

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

I like it.

221

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

I thought you would.

222

00:11:34,000 --> 00:11:41,000

Cavemen first used friction to make fire, but can the same thing happen when rubber meets the road?

223

00:11:43,000 --> 00:11:51,000

Well, to find out, the guys have found a muscle car with enough grunt to spin the tires fast enough to maybe burn rubber.

224

00:11:51,000 --> 00:11:55,000

And it's all going down at the local police training center.

225

00:11:55,000 --> 00:11:57,000

Well, this myth is pretty simple.

226

00:11:57,000 --> 00:12:02,000

The myth is that if you're doing a tire burnout, i.e. screeching your tires on the pavement,

227

00:12:02,000 --> 00:12:07,000

that you can get them going fast enough that they will burst into flames.

228

00:12:07,000 --> 00:12:11,000

I think the testing for this is pretty straightforward.

229

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

First up, Edel to the metal Heinemann wants to put the car through its paces.

230

00:12:19,000 --> 00:12:22,000

These are the offices here are fond of doughnuts.

231

00:12:22,000 --> 00:12:25,000

He disappeared in the cloud of smoke.

232

00:12:25,000 --> 00:12:28,000

The plan for testing is to keep the car stationary.

233

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

I'm going to goose the front up just a little bit.

234

00:12:30,000 --> 00:12:35,000

Then they'll rev the engine until they get a tire of fire or the car cracks up.

235

00:12:35,000 --> 00:12:38,000

As plans go, it's pretty simple.

236

00:12:38,000 --> 00:12:42,000

But Adam and Jamie are following that old myth busters adage.

237

00:12:42,000 --> 00:12:45,000

If it's worth doing, it's worth overdoing.

238

00:12:45,000 --> 00:12:47,000

I don't know how to do it if it's going to work at all.

239

00:12:47,000 --> 00:12:49,000

I'll explain our rig.

240

00:12:49,000 --> 00:12:53,000

This, our test car, has a super powerful engine and it's only going to be spinning this tire.

241

00:12:53,000 --> 00:12:56,000

We've got no tire on the other side and a jack stand.

242

00:12:56,000 --> 00:13:00,000

The front two wheels are off the ground, lifted by the forklift and strapped in

243

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

so that even when this thing is going full bore, the car can't get out of control.

244

00:13:04,000 --> 00:13:08,000

Jamie's built an exhaust system to vent smoke and flames away from the tire when it's going.

245

00:13:08,000 --> 00:13:12,000

We'll be behind the blast chamber section in case bits start flying off.

246

00:13:12,000 --> 00:13:16,000

First up, just spin the tire and see what happens.

247

00:13:16,000 --> 00:13:21,000

A ruptured fuel line or spark could indeed start a fire.

248

00:13:21,000 --> 00:13:23,000

But how about just friction alone?

249

00:13:23,000 --> 00:13:26,000

Well, Jamie for one has got his doubts.

250

00:13:26,000 --> 00:13:29,000

Personally, I'm guessing that we'll disintegrate the tire before we get there,

251

00:13:29,000 --> 00:13:31,000

but that's what we're here to find out.

252

00:13:31,000 --> 00:13:32,000

All right, are you ready to go?

253

00:13:32,000 --> 00:13:33,000

I'm ready.

254

00:13:33,000 --> 00:13:35,000

Okay, let's turn on the scrubbers.

255

00:13:35,000 --> 00:13:38,000

Get behind the wheel, wait for my signal and we'll start the first test.

256

00:13:38,000 --> 00:13:39,000

Got it.

257

00:13:41,000 --> 00:13:43,000

We're looking to create a fire here.

258

00:13:43,000 --> 00:13:45,000

Now, for a fire, we need three things.

259

00:13:45,000 --> 00:13:48,000

We need a fuel, which in this case is the tire.

260

00:13:48,000 --> 00:13:51,000

We need a source of oxygen, which is the air around us.

261

00:13:51,000 --> 00:13:59,000

But for the ignition, we are going to be using the heat generated by the friction between the tire and the road surface.

262

00:13:59,000 --> 00:14:04,000

The question is, can we get that tire hot enough to create that source of ignition?

263

00:14:04,000 --> 00:14:06,000

And it's got to be really hot.

264

00:14:06,000 --> 00:14:12,000

And really hot in this case is 300 degrees Celsius, the ignition point of rubber.

265

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

This is spinning tire fire, tire with no modifications.

266

00:14:17,000 --> 00:14:18,000

Go.

267

00:14:30,000 --> 00:14:36,000

Jamie red lines the engine for over a minute, but there's no sign of flame.

268

00:14:36,000 --> 00:14:43,000

And with the car at full tilt, the question is what will blow first, the tire or the engine?

269

00:14:43,000 --> 00:14:45,000

Oh, stop.

270

00:14:48,000 --> 00:14:50,000

And there's your answer.

271

00:14:52,000 --> 00:14:53,000

Shut it down, Denny.

272

00:14:54,000 --> 00:14:57,000

Jamie's prediction was right on the rubber.

273

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

The high speed camera reveals how the tire burst before it could ignite.

274

00:15:01,000 --> 00:15:04,000

And what's left is way below flash points.

275

00:15:04,000 --> 00:15:06,000

It's not hot.

276

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

The thing is not hot.

277

00:15:07,000 --> 00:15:11,000

I mean, the tread failed and what was underneath wasn't very hot at all.

278

00:15:11,000 --> 00:15:17,000

So for test one, where there's smoke, there's fire, couldn't have been more wrong.

279

00:15:17,000 --> 00:15:21,000

But rest assured, the mythbusters aren't giving up without a fight.

280

00:15:23,000 --> 00:15:26,000

I think you might need some of our fireman's oxygen though.

281

00:15:26,000 --> 00:15:28,000

How you feeling?

282

00:15:28,000 --> 00:15:30,000

Yeah, I want to close the windows this time.

283

00:15:32,000 --> 00:15:33,000

Go.

284

00:15:33,000 --> 00:15:36,000

Next, the tire test spins out of control.

285

00:15:36,000 --> 00:15:39,000

We've got gasoline pouring out of the tire while it's spinning.

286

00:15:39,000 --> 00:15:41,000

Jamie, are you all right?

287

00:15:41,000 --> 00:15:42,000

Oh.

288

00:15:42,000 --> 00:15:45,000

But first, mythbusters minimum match mayhem.

289

00:15:45,000 --> 00:15:46,000

Wow.

290

00:15:46,000 --> 00:15:48,000

Yeah.

291

00:15:53,000 --> 00:16:00,000

The mythbusters YouTube special has been pack in heat with the 30,000 match head fireball.

292

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

Adam and Jamie confirmed the myth, but their viral fan has an even hotter idea.

293

00:16:05,000 --> 00:16:09,000

I thought you guys could test it out, see if you could really do that with matches.

294

00:16:09,000 --> 00:16:14,000

And if it's true, maybe you can get together like a million matches or something.

295

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

See what happens and that would be cool.

296

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

Okay, but cutting a million matches is a big job.

297

00:16:20,000 --> 00:16:23,000

All right, first of all, thank you guys for coming to help out.

298

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

Which means the mythbusters sweatshop is open for business.

299

00:16:27,000 --> 00:16:31,000

A million match heads is what we've got to assemble.

300

00:16:31,000 --> 00:16:35,000

Even at 50,000 per case, that's still 20 cases of matchbooks.

301

00:16:35,000 --> 00:16:37,000

We've got appeal, cut and assemble.

302

00:16:37,000 --> 00:16:39,000

So we called everyone we could.

303

00:16:39,000 --> 00:16:41,000

We've got a 12 person assembly line going.

304

00:16:41,000 --> 00:16:43,000

We've got a quarter of a million match heads so far.

305

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

I'm feeling pretty good about hitting a million by the end of the day.

306

00:16:46,000 --> 00:16:50,000

A million match heads is mind bogglingly massive.

307

00:16:50,000 --> 00:16:52,000

And a mythbusters first.

308

00:16:52,000 --> 00:16:57,000

They've never made or tested a million of anything before now.

309

00:16:57,000 --> 00:17:02,000

And while that doesn't stop it from being a long, tedious, exhausting day,

310

00:17:02,000 --> 00:17:09,000

after 12 hours of cutting, cutting and more cutting, it's game set and matches.

311

00:17:09,000 --> 00:17:13,000

And I thought you'd be interested in seeing just for show

312

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

what is left over when you cut up a million match heads.

313

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

While all that debris will be recycled,

314

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

the million match heads have gone on a one-way trip to the bomb range.

315

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

A million match heads.

316

00:17:26,000 --> 00:17:28,000

Let's go get them.

317

00:17:28,000 --> 00:17:34,000

Instead of a one-gallon bucket, they need a 44-gallon drum to hold all the match heads.

318

00:17:34,000 --> 00:17:41,000

For added shock and awe, they're burning them at night with the help of bomb tech JD.

319

00:17:41,000 --> 00:17:42,000

What now?

320

00:17:42,000 --> 00:17:44,000

A million match heads.

321

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

A million?

322

00:17:45,000 --> 00:17:46,000

A million.

323

00:17:46,000 --> 00:17:49,000

You guys have way too much time on your hands.

324

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

Seriously, a million match heads.

325

00:17:54,000 --> 00:17:57,000

30,000 was fine. Don't get me wrong.

326

00:17:57,000 --> 00:18:00,000

But we went ahead and cut a million.

327

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

And now we're going to get to see these puppies.

328

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

Can you imagine if this went off while we were here?

329

00:18:09,000 --> 00:18:13,000

If it does go off, it's time to de-ass the area with the quickness.

330

00:18:13,000 --> 00:18:16,000

De-ass the area? I like that.

331

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

That's my new favorite phrase.

332

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

A quick de-assing plan could come in handy.

333

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

This crazy request is 33 times larger than the original match blast.

334

00:18:27,000 --> 00:18:30,000

But Jamie thinks it could be even bigger.

335

00:18:30,000 --> 00:18:38,000

There are times when we're dealing with explosives and other energetic materials that scale isn't linear.

336

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

In other words, we can get something like a thermal runaway and we get a lot more boom than we planned on

337

00:18:44,000 --> 00:18:47,000

because things kind of escalate out of control.

338

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

Could happen.

339

00:18:49,000 --> 00:18:55,000

And when out of control is on the agenda, Adam can't help but laugh like a maniac.

340

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

Oh, wow.

341

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

What is a million match heads going to look like?

342

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

A lot more than a million times that, I swear.

343

00:19:06,000 --> 00:19:10,000

I feel like it's going to be like a giant freaking flashball.

344

00:19:10,000 --> 00:19:15,000

To prove Adam's pyro prediction, they still need one final ingredient.

345

00:19:15,000 --> 00:19:17,000

Anybody got a match?

346

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

You guys ready so we can do this?

347

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

I'm ready. You ready, JD?

348

00:19:21,000 --> 00:19:23,000

I'm ready. Let's do it. All right.

349

00:19:27,000 --> 00:19:30,000

A million match blast has never been attempted.

350

00:19:30,000 --> 00:19:37,000

It's unknown, highly explosive territory, so Adam uses a longer fuse for added safety.

351

00:19:40,000 --> 00:19:41,000

Lights out.

352

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

This is one of the coolest things we've done.

353

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

Or possibly the stupidest, but now there's no turning back.

354

00:19:51,000 --> 00:19:52,000

Here we go.

355

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

Yeah!

356

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

That was awesome! That was exactly like the small one, only bigger.

357

00:20:04,000 --> 00:20:06,000

Lots bigger.

358

00:20:07,000 --> 00:20:11,000

I saw match heads like salt and pepper in the playing ball.

359

00:20:11,000 --> 00:20:15,000

It just kept getting brighter and brighter and brighter and larger.

360

00:20:15,000 --> 00:20:19,000

It's a massive fireball, at least 50 feet high.

361

00:20:19,000 --> 00:20:23,000

The high-speed camera reveals the rapid acceleration of the burn.

362

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

One million matches went up in smoke as quickly as 30,000.

363

00:20:28,000 --> 00:20:30,000

It's like a rocket engine.

364

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

A giant blow torch.

365

00:20:36,000 --> 00:20:42,000

Even Jamie Giggled, and I think that's a testament to just how thrilling it was to watch it happen in front of us.

366

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

Which brings us to the disclaimer.

367

00:20:45,000 --> 00:20:49,000

Say it with me, do not try this at home.

368

00:20:49,000 --> 00:20:55,000

If I find out that any of you tried this at home, I'll personally come to your house and kick your butt. You got that?

369

00:20:58,000 --> 00:21:03,000

Seriously, there's no need to try this at home, because we've done it for you.

370

00:21:03,000 --> 00:21:06,000

And they say you shouldn't play with matches.

371

00:21:07,000 --> 00:21:10,000

Coming up, the mother of all match-blasts.

372

00:21:13,000 --> 00:21:14,000

Where did the bowling ball go?

373

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

I don't know.

374

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

Don't try anything you've seen on the show at home.

375

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

We are what you're called experts.

376

00:21:28,000 --> 00:21:34,000

It's a YouTube classic, a giant boulder of Lego rolling through San Francisco.

377

00:21:34,000 --> 00:21:38,000

But is this video the real deal, or just Lego larceny?

378

00:21:38,000 --> 00:21:47,000

To find out, Grant, Tori and Carrie have scoured North America for enough Lego to build a seven-foot ball of bricks.

379

00:21:47,000 --> 00:21:50,000

It is the strategic North American Lego supply.

380

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

But Carrie thinks something doesn't quite add up with this myth.

381

00:21:54,000 --> 00:22:00,000

Now, in the YouTube Lego Ball video, they claim to use five million Lego blocks.

382

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

We've cleared out North America of all of the excess Lego, and we've come up with a little over half a million.

383

00:22:07,000 --> 00:22:12,000

I have some serious doubts that they were able to come up with a whole five million for their video.

384

00:22:12,000 --> 00:22:19,000

While Carrie has her doubts about the number of blocks, Grant wants to find out what a five million brick ball would weigh.

385

00:22:19,000 --> 00:22:23,000

So that's pound. Now, to find out how many are in a pound.

386

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

88 pieces.

387

00:22:27,000 --> 00:22:34,000

By seeing how many bricks make up a pound, it'll be grade school math to calculate the weight of five million.

388

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

So that is 160 bricks per pound.

389

00:22:38,000 --> 00:22:45,000

Meaning that a five million brick ball would weigh a car crushing 10 tons.

390

00:22:45,000 --> 00:22:52,000

Yet despite being rolled down a steep hill, the YouTube ball didn't bend a fender.

391

00:22:52,000 --> 00:22:56,000

That makes the five million brick posts seem a little unlikely.

392

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

But they won't know for sure until they build their own.

393

00:22:59,000 --> 00:23:04,000

So they've enrolled in Carrie's Lego Ball Building 101.

394

00:23:04,000 --> 00:23:10,000

What we're going to do is build these giant bricks out of these little bricks.

395

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

And then each one of these giant bricks is going to be one of these in this entire prototype here.

396

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

Oh my God, that's huge!

397

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

That's a lot of bricks.

398

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

It sure is. First, hundreds of Lego pieces must be built into a giant block.

399

00:23:25,000 --> 00:23:31,000

This is then snapped together with 3,599 other giant blocks.

400

00:23:31,000 --> 00:23:36,000

Until, hey presto, a gigantic, chunky seven foot ball.

401

00:23:36,000 --> 00:23:40,000

This is a pattern for what every layer should look like as we build each brick.

402

00:23:40,000 --> 00:23:43,000

Does anybody else think this is going to be a lot simpler when we start it out?

403

00:23:43,000 --> 00:23:45,000

It seems pretty complicated. I got it.

404

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

A lot of work.

405

00:23:46,000 --> 00:23:50,000

A lot of work may be the understatement of the year.

406

00:23:50,000 --> 00:23:54,000

And they soon realize they need a hand to build their bricks.

407

00:23:54,000 --> 00:23:56,000

We need to make 3,600 of these bricks.

408

00:23:56,000 --> 00:23:59,000

But these bricks are made up of over 100 bricks.

409

00:23:59,000 --> 00:24:02,000

And it's taking about 10 minutes per brick to make these.

410

00:24:02,000 --> 00:24:06,000

Now, Carrie Grant and I can make them ourselves, but that would take forever.

411

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

So we brought in some help.

412

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

Alright you guys, 3,600!

413

00:24:10,000 --> 00:24:12,000

Hooray!

414

00:24:12,000 --> 00:24:15,000

You, the green coat. Let's talk more work.

415

00:24:16,000 --> 00:24:22,000

Now the web is running so hot with requests to test viral myths.

416

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

We couldn't test them all on this show.

417

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

That's right. So if you want some more hot web action, not that kind of hot.

418

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

You know what we mean.

419

00:24:30,000 --> 00:24:35,000

Log on to [Discovery.com slash MythBusters](http://Discovery.com/slash/MythBusters) for more YouTube Myth Mayhem.

420

00:24:46,000 --> 00:24:51,000

Look at that! It may have taken 35 minutes, but we got some burning rubber. Hey, Jamie!

421

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

It's a sizzling surprise.

422

00:24:53,000 --> 00:24:59,000

Remarkably, the powdered rubber shed by the tire has ignited half an hour after the test.

423

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

That sucker's gotten hot in the last half hour.

424

00:25:02,000 --> 00:25:04,000

The flames fuel Adam's optimism.

425

00:25:04,000 --> 00:25:09,000

What we saw in this tire dust after Jamie burned the rubber was a little bit more hot.

426

00:25:09,000 --> 00:25:10,000

But it's still hot.

427

00:25:10,000 --> 00:25:13,000

The flames fuel Adam's optimism.

428

00:25:13,000 --> 00:25:17,000

What we saw in this tire dust after Jamie burned the rubber was smoldering smoke.

429

00:25:17,000 --> 00:25:21,000

That was small particles of this actin kind of like coals in a barbecue.

430

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

They were being converted to smoke by heat.

431

00:25:24,000 --> 00:25:29,000

And enough of them propagated that while we're eating lunch, the thing caught on fire.

432

00:25:29,000 --> 00:25:32,000

To me that means that the elements for tire ignition are here.

433

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

They're just maybe not all in the right place at the right time for us.

434

00:25:35,000 --> 00:25:42,000

If they can find a way to ignite the rubber while it's on the tire, then maybe this myth is more effect than friction.

435

00:25:42,000 --> 00:25:47,000

So we did get the tire burned. It just took a little longer than we thought. Like about an hour.

436

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

Exactly. We just have to shorten that time stamp and I think we're good.

437

00:25:51,000 --> 00:25:56,000

And Adam's got an idea to shorten that time span on their next spin.

438

00:25:56,000 --> 00:25:59,000

We get the tire spinning up really fast. We got some really hot temperatures.

439

00:25:59,000 --> 00:26:04,000

And then we add sparks, which could happen if a piece of equipment's dragging from the bottom of the car.

440

00:26:04,000 --> 00:26:07,000

Maybe that is going to get us the ignition working.

441

00:26:07,000 --> 00:26:13,000

Right spark Adam has rigged an angle grinder to a sheet of metal to get more sparks from the 4th of July.

442

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

We'll do that for about 45 or 55 seconds.

443

00:26:17,000 --> 00:26:21,000

Once more, Jamie climbs into the hot seat, this time with an oxygen mask.

444

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

Alright dude, you're good to go. I'll start the sparks once you start to burn.

445

00:26:29,000 --> 00:26:31,000

Now we got sparks going.

446

00:26:35,000 --> 00:26:41,000

It's like we're being transported to a mystical land.

447

00:26:42,000 --> 00:26:47,000

Two minutes and the tire hasn't blown. Jamie floors the V8 once more.

448

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

Alright, he's really mean to the noun.

449

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

Oh, there we go.

450

00:26:52,000 --> 00:26:58,000

The tire is totally totaled. But even with sparks, once again, no fire.

451

00:26:59,000 --> 00:27:03,000

This myth is looking more than a little rubbery.

452

00:27:03,000 --> 00:27:06,000

So for a final test, they'll throw everything at the tire.

453

00:27:06,000 --> 00:27:09,000

We tried the regular old tire. We tried the tire plus sparks.

454

00:27:09,000 --> 00:27:11,000

And we still have not got a burning tire.

455

00:27:11,000 --> 00:27:15,000

I think you'd agree with me that it's time to add some fossil fuels.

456

00:27:15,000 --> 00:27:19,000

And that's what's hanging in that bag over there, which leads to a tube and a stopcock.

457

00:27:19,000 --> 00:27:22,000

It goes all the way under the car to an outlet right here.

458

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

Gas, fumes and sparks.

459

00:27:25,000 --> 00:27:29,000

If this doesn't get the tire burning, it's just not going to happen.

460

00:27:30,000 --> 00:27:34,000

It's an old Mythbusters standby. When in doubt, add accelerant.

461

00:27:34,000 --> 00:27:37,000

Alright, gas plus sparks. I'm going to start the gasoline.

462

00:27:39,000 --> 00:27:41,000

Go!

463

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

This blast chamber is great for degree, not for smoke.

464

00:27:46,000 --> 00:27:50,000

After 90 seconds, no flames, but plenty of smoke.

465

00:27:51,000 --> 00:27:55,000

Gas fumes and sparks should be an explosive mix.

466

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

Something here doesn't add up.

467

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

I think that's about it.

468

00:28:02,000 --> 00:28:04,000

Jamie, are you alright?

469

00:28:04,000 --> 00:28:06,000

He's alright.

470

00:28:06,000 --> 00:28:08,000

He's breathing oxygen. How's that for you?

471

00:28:08,000 --> 00:28:11,000

Seemed like it took forever. Did we get any kind of fire?

472

00:28:11,000 --> 00:28:15,000

We didn't get any kind of fire. We had sparks shooting right on the gasoline.

473

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

And the smoke was everywhere.

474

00:28:18,000 --> 00:28:22,000

We gave it every kind of bad situation a car could find itself in.

475

00:28:22,000 --> 00:28:27,000

Accelerance on the ground, sparks shooting, tires spinning until it burst,

476

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

and we didn't get a burning tire.

477

00:28:29,000 --> 00:28:31,000

And Jamie's got a theory as to why.

478

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

It seems to me that the wind coming off of the tire as it was spinning

479

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

was keeping the gasoline from igniting.

480

00:28:36,000 --> 00:28:37,000

Yeah, totally.

481

00:28:37,000 --> 00:28:42,000

Turns out that the turbulence caused by the spinning prevented any sort of ignition,

482

00:28:42,000 --> 00:28:46,000

meaning that the tire effectively has its own fire prevention system.

483

00:28:46,000 --> 00:28:50,000

And that means it's time to retire this myth for good.

484

00:28:50,000 --> 00:28:52,000

Well, I guess this means it's busted.

485

00:28:52,000 --> 00:28:54,000

That's totally busted.

486

00:28:58,000 --> 00:29:02,000

Coming right up, how dangerous can a child's toy be?

487

00:29:02,000 --> 00:29:05,000

One, two, three.

488

00:29:05,000 --> 00:29:08,000

Go, go, go, go, go, go, go, go, go, go, go, go.

489

00:29:08,000 --> 00:29:10,000

Go!

490

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

Frantorian carry are up to their arms in Lego,

491

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

testing whether this YouTube video is really real.

492

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

They've employed a Lego army to build 3,600 super blocks to make the ball.

493

00:29:32,000 --> 00:29:37,000

But with half the ball complete, they're running out of their half million tiny pieces.

494

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

And that busts the first part of the myth right there.

495

00:29:40,000 --> 00:29:45,000

They won't need anything like the five million bricks the video claimed were used to build the ball.

496

00:29:45,000 --> 00:29:49,000

But they will need another half a million to finish it.

497

00:29:49,000 --> 00:29:52,000

So, Carrie goes looking for a Lego loan.

498

00:29:52,000 --> 00:29:56,000

We hear you have the largest private collection of Lego in the entire world.

499

00:29:56,000 --> 00:29:58,000

Now, why is that?

500

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

Well, I am an artist who works with Lego bricks.

501

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

I am a brick artist.

502

00:30:02,000 --> 00:30:06,000

Nathan Sawaya is one of the world's leading Lego artists,

503

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

found in galleries and museums worldwide.

504

00:30:09,000 --> 00:30:12,000

And Carrie hopes he has the odd brick or two to spare.

505

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

Would you be willing to lend us enough to finish off this crazy ball?

506

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

I would be more than happy.

507

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

I'm happy to send out about half a million.

508

00:30:20,000 --> 00:30:21,000

Should that do it?

509

00:30:21,000 --> 00:30:24,000

So you just have half a million, you can just flow our way.

510

00:30:24,000 --> 00:30:25,000

Well, here and there.

511

00:30:28,000 --> 00:30:32,000

And that pretty much flattens part two of the Lego ball myth.

512

00:30:32,000 --> 00:30:38,000

At 3,000 pounds, pushing this ball might be a tougher chore than the video depicts.

513

00:30:43,000 --> 00:30:49,000

Now, all one million bricks are transformed into 3,600 super blocks.

514

00:30:49,000 --> 00:30:54,000

So the ball itself can be built for the final Lego versus car test.

515

00:30:54,000 --> 00:30:57,000

I need some of the little bricks on here, is one of the big bricks on there.

516

00:30:57,000 --> 00:31:00,000

We're just going to put it all together right here on the floor.

517

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

Alright, I guess it's Lego time.

518

00:31:02,000 --> 00:31:04,000

Let's get the ball rolling.

519

00:31:05,000 --> 00:31:10,000

The final stage begins, layering the blocks to build the ball from the ground up.

520

00:31:10,000 --> 00:31:12,000

That's if they can follow Gary's plan.

521

00:31:13,000 --> 00:31:17,000

This layer, here is this layer, and this layer is that layer.

522

00:31:19,000 --> 00:31:21,000

Maybe you should put the middle pieces on.

523

00:31:28,000 --> 00:31:33,000

After two whole days, the last big brick is hammered into place.

524

00:31:33,000 --> 00:31:34,000

Last brick?

525

00:31:35,000 --> 00:31:38,000

All in all, it's just another brick in the ball.

526

00:31:38,000 --> 00:31:44,000

But it's the final one, after one of the longest builds in the hallowed history of Myth Busters.

527

00:31:47,000 --> 00:31:51,000

The labor involved in building this ball was intense.

528

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

We had an army of volunteers.

529

00:31:53,000 --> 00:31:55,000

All of us worked around the clock for two weeks.

530

00:31:55,000 --> 00:32:00,000

It was just one of the biggest builds that we've ever had, and it was just little Lego bricks.

531

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

I can't imagine that the few people we saw in the video actually spent the time to build a Lego ball like this.

532

00:32:07,000 --> 00:32:11,000

And now they've done the time, it's time to do the crime.

533

00:32:11,000 --> 00:32:13,000

Alright, well that leaves rolling the ball down the hill.

534

00:32:13,000 --> 00:32:17,000

We need to see if it's going to do the same damage, if any, when it smashes into that car.

535

00:32:17,000 --> 00:32:21,000

We can't get permission to just roll it down a neighborhood street. It's way too dangerous.

536

00:32:21,000 --> 00:32:22,000

All that work for nothing?

537

00:32:22,000 --> 00:32:26,000

No, actually we have a backup plan. You know the paved road up to the Alameda bomb range?

538

00:32:26,000 --> 00:32:30,000

It's the same grade as the one in the video, and it gives us plenty of run to do the test.

539

00:32:30,000 --> 00:32:31,000

Perfect!

540

00:32:31,000 --> 00:32:36,000

So all we need to do is get a car, put it at the bottom, roll our Lego ball, and see what happens.

541

00:32:36,000 --> 00:32:37,000

Let's get smashing!

542

00:32:42,000 --> 00:32:44,000

Giant Lego ball, here it comes.

543

00:32:44,000 --> 00:32:49,000

It's a delicate operation, but eventually the ball rolls up at the roll down.

544

00:32:52,000 --> 00:32:55,000

Just a few casualties, they've mostly made it.

545

00:32:55,000 --> 00:32:58,000

Keep coming, you're almost there, and...

546

00:32:58,000 --> 00:33:02,000

This looks like a perfect place for a giant game of 10-pin.

547

00:33:02,000 --> 00:33:07,000

Okay, so here's our setup. We are on an incline, roughly matching the one in the viral video.

548

00:33:07,000 --> 00:33:13,000

We have our ball at the top to guide the ball down to its target, which is in fact a real car.

549

00:33:13,000 --> 00:33:16,000

We have barriers set up on either side.

550

00:33:16,000 --> 00:33:19,000

Let's chalk it up so it doesn't go rolling down the hill.

551

00:33:19,000 --> 00:33:25,000

Before they can Lego, the team review the myth, piece by plastic piece.

552

00:33:25,000 --> 00:33:27,000

So there are three parts to this myth.

553

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

First, that a ball of this size required 5 million pieces.

554

00:33:31,000 --> 00:33:35,000

That one's busted. We only used a million pieces to get to a ball this size.

555

00:33:35,000 --> 00:33:40,000

The second part of the myth is that this ball is easily moved around, but there's no way that's

possible.

556

00:33:40,000 --> 00:33:43,000

This ball weighs 3,000 pounds, so that part of the myth is busted.

557

00:33:43,000 --> 00:33:48,000

And the third part of the myth is that the ball rolls down the hill and bounces off a car.

558

00:33:48,000 --> 00:33:51,000

Will that be busted or confirmed? We're about to see.

559

00:33:51,000 --> 00:33:58,000

And after putting in so many hours and so much hard work to build their big rainbow-colored ball,

560

00:33:58,000 --> 00:34:01,000

the team is hoping for a big finale.

561

00:34:01,000 --> 00:34:07,000

Grant's got a perilous prediction for a fantastic plastic car-crushing ball of doom.

562

00:34:07,000 --> 00:34:10,000

I predict we're going to see some major carnage.

563

00:34:10,000 --> 00:34:13,000

The ball is going to roll down there, chunk, chunk, chunk, chunk, chunk.

564

00:34:13,000 --> 00:34:16,000

Pieces flying off everywhere and, baboom!

565

00:34:16,000 --> 00:34:20,000

It's going to hit the car at the bottom and cause mayhem.

566

00:34:20,000 --> 00:34:22,000

It's only 3,000 pounds.

567

00:34:22,000 --> 00:34:24,000

Okay, we're clear. We're ready to roll.

568

00:34:24,000 --> 00:34:26,000

Oh, no!

569

00:34:26,000 --> 00:34:29,000

Oh, no! I can't believe it!

570

00:34:29,000 --> 00:34:31,000

My heart's racing. You ready?

571

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

1, 2, 3!

572

00:34:39,000 --> 00:34:43,000

It's a good start as the ball makes a beeline for the car.

573

00:34:45,000 --> 00:34:47,000

But then...

574

00:34:47,000 --> 00:34:49,000

Oh!

575

00:34:49,000 --> 00:34:51,000

No!

576

00:34:51,000 --> 00:34:53,000

No!

577

00:34:55,000 --> 00:35:00,000

Two weeks and nearly a thousand man hours to put a million bricks together

578

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

and just ten seconds to tear them apart.

579

00:35:03,000 --> 00:35:05,000

It didn't even make it to the car!

580

00:35:05,000 --> 00:35:08,000

Woo! Yeah!

581

00:35:08,000 --> 00:35:10,000

Clean up on aisle five!

582

00:35:11,000 --> 00:35:15,000

The high-speed camera reveals a huge vertical split

583

00:35:15,000 --> 00:35:17,000

busted the ball wide open,

584

00:35:17,000 --> 00:35:21,000

along with the third and final part of the Lego ball myth.

585

00:35:21,000 --> 00:35:24,000

It's StereoG3 for this story.

586

00:35:28,000 --> 00:35:30,000

This is the last thing I expected to happen.

587

00:35:30,000 --> 00:35:33,000

I mean, I thought I was going to roll down and actually destroy the car.

588

00:35:33,000 --> 00:35:36,000

I never thought in a million years that it would just bust up into a million pieces.

589

00:35:36,000 --> 00:35:38,000

From the totally different results,

590

00:35:38,000 --> 00:35:43,000

it's most likely the guys in the YouTube video did some trickery with their brickery,

591

00:35:43,000 --> 00:35:47,000

gluing their Lego onto a large, lightweight ball.

592

00:35:47,000 --> 00:35:52,000

It means this myth is also broken into a million tiny pieces.

593

00:35:52,000 --> 00:35:56,000

We didn't even get halfway down the run and all of a sudden it just went...

594

00:35:56,000 --> 00:36:01,000

It completely filled the pieces. This one is completely busted.

595

00:36:03,000 --> 00:36:07,000

Next, Adam and Jamie Gopa-Listic playing with matches.

596

00:36:09,000 --> 00:36:15,000

Now for some Mythbusters insider info.

597

00:36:15,000 --> 00:36:21,000

If you had 40 billion pieces of Lego, you could build a tower to the moon.

598

00:36:21,000 --> 00:36:25,000

That's around 240,000 miles.

599

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

There's been a lot of monkeying around with matches by our Mythbusters.

600

00:36:37,000 --> 00:36:41,000

Jamie and Adam have applied heat to the YouTube match blast myth.

601

00:36:41,000 --> 00:36:45,000

They confirmed that 30,000 match heads are a blast.

602

00:36:45,000 --> 00:36:50,000

But then at the request of a fan, they increased the inferno to 1 million.

603

00:36:50,000 --> 00:36:52,000

That was awesome!

604

00:36:52,000 --> 00:36:54,000

So, what's left to prove?

605

00:36:55,000 --> 00:37:00,000

You know what I like about doing this show is that we actually get to do stuff like light up a million match heads.

606

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

When the hell is that ever going to happen again?

607

00:37:04,000 --> 00:37:07,000

And yet I have to admit, somehow I just don't feel like it's enough.

608

00:37:07,000 --> 00:37:09,000

Well, you know what I was thinking about that?

609

00:37:09,000 --> 00:37:12,000

What if we actually made the matches do work?

610

00:37:12,000 --> 00:37:15,000

Like, say we put them in a cannon and fired a cannonball with them.

611

00:37:15,000 --> 00:37:17,000

Instead of just blowing something up.

612

00:37:18,000 --> 00:37:20,000

I love it, let's do it.

613

00:37:20,000 --> 00:37:23,000

A cannon powered by match heads?

614

00:37:23,000 --> 00:37:25,000

I got your cannon right here!

615

00:37:25,000 --> 00:37:28,000

Well, how about an old welding cylinder powered by matches?

616

00:37:28,000 --> 00:37:31,000

As is our way on Mythbusters, we're using tools and materials.

617

00:37:31,000 --> 00:37:34,000

In ways for which they were never intended.

618

00:37:34,000 --> 00:37:38,000

This right here is a K-sized gas cylinder.

619

00:37:39,000 --> 00:37:42,000

But soon it's going to be a cannon.

620

00:37:44,000 --> 00:37:48,000

Now may be a good time to say, don't try this at home.

621

00:37:49,000 --> 00:37:51,000

Leave it to the experts.

622

00:37:51,000 --> 00:37:53,000

It's like a smoking gun.

623

00:37:54,000 --> 00:37:56,000

The plan is to make a muzzle loading cannon.

624

00:37:56,000 --> 00:37:59,000

Pack it with 60,000 matches.

625

00:37:59,000 --> 00:38:03,000

And see if that explosive energy can launch a cannonball.

626

00:38:04,000 --> 00:38:07,000

Or should that be launch a bowling ball?

627

00:38:07,000 --> 00:38:10,000

Because our hard to impress Heinemann is ready to get loaded.

628

00:38:10,000 --> 00:38:11,000

I'm done.

629

00:38:11,000 --> 00:38:13,000

You think it'll fit?

630

00:38:13,000 --> 00:38:15,000

It's going to be close.

631

00:38:16,000 --> 00:38:20,000

First, the six pound bowling ball needs a close shave.

632

00:38:21,000 --> 00:38:23,000

Totally doesn't fit.

633

00:38:24,000 --> 00:38:27,000

While Jamie Sands is big orange ball,

634

00:38:27,000 --> 00:38:31,000

Adam gives the former gas tank a steel girdle and a set of wheels.

635

00:38:35,000 --> 00:38:37,000

Oh, that's awesome.

636

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

Alright, a few more welds.

637

00:38:43,000 --> 00:38:45,000

Welded and ready for duty.

638

00:38:45,000 --> 00:38:47,000

Well, that's a cannon.

639

00:38:47,000 --> 00:38:49,000

And there's a cannonball.

640

00:38:52,000 --> 00:38:56,000

Then it's back to the bomb range to see if 60,000 matches pack enough pine.

641

00:38:57,000 --> 00:39:01,000

And then it's back to the ranch to send a six pound ball into the air.

642

00:39:02,000 --> 00:39:05,000

It's just another lovely day at the bomb range.

643

00:39:05,000 --> 00:39:07,000

Birds are singing.

644

00:39:07,000 --> 00:39:09,000

Rapids are hopping about.

645

00:39:09,000 --> 00:39:11,000

And soon there's going to be a big explosion.

646

00:39:14,000 --> 00:39:16,000

With a bowling ball as the projectile,

647

00:39:16,000 --> 00:39:19,000

the boys have picked the perfect target.

648

00:39:19,000 --> 00:39:23,000

What else are we going to shoot at with a cannon that fires a bowling ball?

649

00:39:23,000 --> 00:39:26,000

Of course we're going to shoot at bowling pins.

650

00:39:27,000 --> 00:39:30,000

We're going to shoot at the bowling pin to the right.

651

00:39:30,000 --> 00:39:32,000

So swing it to the left.

652

00:39:32,000 --> 00:39:34,000

That's it.

653

00:39:34,000 --> 00:39:36,000

Let's load.

654

00:39:36,000 --> 00:39:40,000

With the target ready, the cannons primed with 60,000 match heads.

655

00:39:40,000 --> 00:39:45,000

One recycled grocery bag, some cannon fuse and Jamie's favorite ingredient.

656

00:39:45,000 --> 00:39:48,000

I didn't have too much lard.

657

00:39:48,000 --> 00:39:52,000

Lard should ensure a smooth exit out of the cannon.

658

00:39:52,000 --> 00:39:55,000

Alright, bowling ball is properly larded.

659

00:39:55,000 --> 00:39:57,000

And this means they're ready to fire.

660

00:39:57,000 --> 00:40:00,000

Though they're not sure what will happen when they do.

661

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

There we go.

662

00:40:02,000 --> 00:40:04,000

There's nothing right about this setup.

663

00:40:04,000 --> 00:40:06,000

Everything is wrong.

664

00:40:06,000 --> 00:40:10,000

Our cannon here is actually a modified K-sized argon cylinder.

665

00:40:10,000 --> 00:40:14,000

Our cannon ball is actually a modified six pound bowling ball.

666

00:40:14,000 --> 00:40:19,000

Our propellant is actually modified books of matches, just the heads.

667

00:40:19,000 --> 00:40:22,000

There are so many variables we don't know what's going to happen,

668

00:40:22,000 --> 00:40:26,000

but we're a safe distance and the blast chamber panels come into play.

669

00:40:26,000 --> 00:40:29,000

Okay, I'm going to lay and come around and make room for me over there, alright?

670

00:40:29,000 --> 00:40:31,000

Well do.

671

00:40:41,000 --> 00:40:43,000

I love cannon fuse.

672

00:40:43,000 --> 00:40:44,000

I know, I know, totally.

673

00:40:44,000 --> 00:40:46,000

You can see what it's doing.

674

00:40:46,000 --> 00:40:48,000

It sort of builds anticipation.

675

00:40:48,000 --> 00:40:52,000

Adam's confidence grows as the fuse shortens.

676

00:40:52,000 --> 00:40:54,000

You know, personally, I think this is actually going to work.

677

00:40:54,000 --> 00:40:58,000

Bowling balls are going to come flying out of there and knock down all those pits.

678

00:40:58,000 --> 00:41:02,000

I'll probably break the bowling ball because it's going so fast though.

679

00:41:02,000 --> 00:41:04,000

It's amazing, it's just match heads.

680

00:41:04,000 --> 00:41:06,000

I know.

681

00:41:09,000 --> 00:41:11,000

Dude, that's awful.

682

00:41:11,000 --> 00:41:13,000

Okay, now it's inside.

683

00:41:14,000 --> 00:41:16,000

Oh!

684

00:41:17,000 --> 00:41:19,000

Where did the bowling ball go?

685

00:41:19,000 --> 00:41:20,000

I don't know.

686

00:41:20,000 --> 00:41:22,000

Shot over the pins.

687

00:41:22,000 --> 00:41:24,000

Really?

688

00:41:24,000 --> 00:41:26,000

We missed the pins.

689

00:41:26,000 --> 00:41:28,000

It's a humongous blast.

690

00:41:28,000 --> 00:41:32,000

The cannon went great guns, hurling the bowling ball over the pins,

691

00:41:32,000 --> 00:41:35,000

over the pins, and up over the hill.

692

00:41:35,000 --> 00:41:37,000

We've got to go look for it.

693

00:41:37,000 --> 00:41:38,000

Uh-huh.

694

00:41:38,000 --> 00:41:40,000

Come on.

695

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

The teams search high and low,

696

00:41:44,000 --> 00:41:46,000

but despite it being day glow orange,

697

00:41:46,000 --> 00:41:49,000

no one can see any sign of the ball.

698

00:41:49,000 --> 00:41:50,000

Until...

699

00:41:50,000 --> 00:41:51,000

There it is.

700

00:41:51,000 --> 00:41:52,000

Right there, straight ahead.

701

00:41:52,000 --> 00:41:53,000

They find it.

702

00:41:53,000 --> 00:41:55,000

Oh! Ha ha!

703

00:41:55,000 --> 00:41:59,000

It's got a big crack in it, but it's perfectly intact.

704

00:42:00,000 --> 00:42:02,000

I swear, aside from missing our pins,

705

00:42:02,000 --> 00:42:06,000

that's a very viable impromptu cannon.

706

00:42:06,000 --> 00:42:09,000

Yeah, I mean, that would have killed you if you'd been in front of it,

707

00:42:09,000 --> 00:42:11,000

or a bunch of people, actually.

708

00:42:11,000 --> 00:42:14,000

This is becoming an area of expertise of ours.

709

00:42:14,000 --> 00:42:15,000

It's still intact.

710

00:42:15,000 --> 00:42:17,000

Oh, I'd bowl with it.

711

00:42:19,000 --> 00:42:23,000

The six-pound ball traveled 1,500 feet uphill.

712

00:42:23,000 --> 00:42:26,000

1,500 feet uphill?

713

00:42:26,000 --> 00:42:28,000

That's like 3,000 feet normal.

714

00:42:28,000 --> 00:42:29,000

With matches.

715

00:42:29,000 --> 00:42:30,000

With matches!

716

00:42:30,000 --> 00:42:32,000

That is a lot of power.

717

00:42:32,000 --> 00:42:34,000

Nicely done.

718

00:42:34,000 --> 00:42:35,000

16-E.

719

00:42:35,000 --> 00:42:36,000

Awesome.

720

00:42:36,000 --> 00:42:38,000

Large.

721

00:42:39,000 --> 00:42:43,000

The high-speed camera reveals a fiery blast and recoil

722

00:42:43,000 --> 00:42:47,000

that's as good as, or better than, if they'd used gunpowder.

723

00:42:50,000 --> 00:42:53,000

Not only have they confirmed the original myth,

724

00:42:53,000 --> 00:42:56,000

but the million-match blast and the match cannon

725

00:42:56,000 --> 00:43:01,000

prove the explosive power of the chemicals contained in household matches.

726

00:43:03,000 --> 00:43:04,000

That was great.

727

00:43:04,000 --> 00:43:08,000

It was, you know, one of those things I had no idea that that would actually work.

728

00:43:09,000 --> 00:43:12,000

Yeah, well, we proved the video was true and we topped it.

729

00:43:12,000 --> 00:43:14,000

You can't ask for more than that.