

1

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

Please, don't try anything that you're about to see us do at home. Ever.

2

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

That was fun.

3

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

Then, Carrie Grant and Tori.

4

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

You want a piece of me?

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

Take a bullseye view testing the age-old adage.

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

Red flag to a bull.

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

And will the saying, Bull in a China Shop, stand up to science?

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

What?

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

Ridiculous.

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

Who are the Mythbusters?

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

Adam Savage.

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

Arzoo Pond.

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

And Jamie Heineman.

14

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

Between them more than 30 years of special effects experience.

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

That is so strong.

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

Joining them, Grant Imahara.

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00:01:08,000 --> 00:01:10,000

That doesn't look dark at all.

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

Tori Bellachy.

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

Bang it, bang it, bang it.

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00:01:13,000 --> 00:01:14,000

And Carrie Byron.

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00:01:14,000 --> 00:01:16,000

High explosives and electricity.

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00:01:16,000 --> 00:01:18,000

They don't just tell the myth.

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00:01:18,000 --> 00:01:21,000

They put them to the test.

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00:01:31,000 --> 00:01:34,000

Now, I want you to posit a story with me.

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

A husband and wife are going on a summer vacation.

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

They have some guns.

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

They have a little bit of ammo.

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

And they want to store them in a place that no one would find them and steal them.

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

But they don't have a proper locking gun cabinet.

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00:01:43,000 --> 00:01:45,000

So, the husband comes up with a plan.

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00:01:45,000 --> 00:01:50,000

He thinks it's ingenious in a place no one would ever look for guns or ammunition.

32

00:01:50,000 --> 00:01:51,000

His oven.

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00:01:51,000 --> 00:01:55,000

I'm not sure what, but something tells me there might be a problem with that.

34

00:01:55,000 --> 00:01:58,000

Your intuition is correct because they come back from summer vacation.

35

00:01:58,000 --> 00:02:03,000

And I guess famished by the long drive, the wife goes to make a roast, pre-heats the oven,

36

00:02:03,000 --> 00:02:04,000

and...

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00:02:04,000 --> 00:02:05,000

Metal popcorn.

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

Exactly.

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00:02:06,000 --> 00:02:09,000

They have a very healthy diet that evening of lead.

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00:02:09,000 --> 00:02:12,000

Incredibly, it's true.

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00:02:12,000 --> 00:02:19,000

We have several reports of careless gun owners using their kitchen oven to store their munitions.

42

00:02:19,000 --> 00:02:21,000

But the fan site is clamoring for answers.

43

00:02:21,000 --> 00:02:25,000

Would the bullets even explode at standard oven temperature?

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00:02:25,000 --> 00:02:30,000

And if they did, would they escape the oven with lethal consequences?

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00:02:30,000 --> 00:02:31,000

What's the plan?

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00:02:31,000 --> 00:02:36,000

Well, astonishingly, we have more than a few reports of this actually happening.

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00:02:36,000 --> 00:02:43,000

Of people storing not only live ammunition, but also loaded guns in their ovens and accidentally turning them on.

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00:02:43,000 --> 00:02:45,000

And I think we should test both scenarios.

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00:02:45,000 --> 00:02:48,000

Okay, well, let's get in the oven and get to work.

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00:02:48,000 --> 00:02:53,000

All right, so we've come to the South San Francisco Police Department because they've got a shooting range that we've been filming in,

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

well, ever since Ice Bullets.

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00:02:55,000 --> 00:03:04,000

We've also done finger-in-a-barrel, shooting down a barrel, bullets fired up, and bullet in teeth.

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00:03:04,000 --> 00:03:06,000

Today, we're going to be shooting at a bunch of oven doors.

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00:03:06,000 --> 00:03:12,000

Now, this is a control for our ammo in the oven test to see exactly how bullet-proof an oven door is,

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00:03:12,000 --> 00:03:16,000

and if it's not, how lethal is the bullet after it gets through.

56

00:03:16,000 --> 00:03:27,000

With the help of supervising adult John Stankovitz, Adam and Jamie intend to fire a variety of weapons at the steel and glass of the oven doors.

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00:03:27,000 --> 00:03:29,000

Here comes another grant.

58

00:03:29,000 --> 00:03:31,000

Look at that.

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00:03:31,000 --> 00:03:39,000

And to find out if a door-piercing shot is lethal, Grant is going to play the part of the curious, careless chef.

60

00:03:39,000 --> 00:03:45,000

Jamie steps up for the first test, and he's using the smallest weapon at his disposal.

61

00:03:46,000 --> 00:03:48,000

Fire it.

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00:03:49,000 --> 00:03:58,000

But even the .22 caliber pistol easily penetrates the double layer of toughened glass, and Grant's head.

63

00:03:58,000 --> 00:04:01,000

It's about three inches of penetration going through both panes of glass.

64

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

Well, I'd call that a kill shot.

65

00:04:03,000 --> 00:04:06,000

Yeah, pretty much without a doubt.

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00:04:06,000 --> 00:04:08,000

But what about the steel?

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00:04:09,000 --> 00:04:15,000

Grant and his ballistic bust breathe a sigh of relief, because the round failed to make it through.

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

Yeah, I'd say your reason to be protected by your oven from a .22 shell.

69

00:04:19,000 --> 00:04:22,000

I think it's time to try the .44.

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00:04:22,000 --> 00:04:26,000

Dirty Adam and his magnum are next.

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00:04:26,000 --> 00:04:30,000

But this time, the metal door frame is no protection.

72

00:04:30,000 --> 00:04:38,000

The .44 caliber round gives Grant a lethal headache, and Adam and Jamie have their worst-case scenario baseline.

73

00:04:38,000 --> 00:04:41,000

Grant wants to know what's next.

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

That would be the shotgun.

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00:04:44,000 --> 00:04:48,000

Now, none of the reports our researchers uncovered mention a loaded shotgun.

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00:04:48,000 --> 00:04:52,000

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

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00:04:52,000 --> 00:04:55,000

All right, Jamie, here's your motivation.

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00:04:55,000 --> 00:04:58,000

This oven door is run off with your wife.

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00:04:58,000 --> 00:05:01,000

And you decided to gear up and get even.

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00:05:01,000 --> 00:05:03,000

So don't worry.

81

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

Oh!

82

00:05:13,000 --> 00:05:17,000

I guess the moral is, don't elope with Mrs. Heineman.

83

00:05:18,000 --> 00:05:20,000

I think that's enough.

84

00:05:22,000 --> 00:05:25,000

Okay, play time's over. Let's get the results.

85

00:05:25,000 --> 00:05:30,000

It may seem that the testing we've done today here is a little gratuitous.

86

00:05:32,000 --> 00:05:36,000

I want to make it clear that we're just trying to get a really good control.

87

00:05:36,000 --> 00:05:43,000

We want to know what these bullets do to the oven doors, both the glass and the metal, in the worst-case scenario.

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00:05:43,000 --> 00:05:48,000

And they all seem to be similar amounts of pretty darn lethal.

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00:05:48,000 --> 00:05:52,000

But that gives us a perfect baseline with which to continue the testing.

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00:05:52,000 --> 00:05:58,000

And the next thing we do is we start baking some bullets, getting some lethal popcorn.

91

00:06:11,000 --> 00:06:13,000

What did you just say?

92

00:06:15,000 --> 00:06:18,000

Okay, I heard what you said. Why did you say it?

93

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

Dude, we're doing rodeo myths.

94

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

Oh, cool. Which one?

95

00:06:20,000 --> 00:06:22,000

Red flag to a bull cowboy.

96

00:06:22,000 --> 00:06:26,000

That's when the color red, like, infuriates the bull and it comes charging after you.

97

00:06:26,000 --> 00:06:28,000

I have always wanted to test that.

98

00:06:28,000 --> 00:06:30,000

Yee-haw!

99

00:06:30,000 --> 00:06:31,000

Now he's on board.

100

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

Okay, so how are we going to test this?

101

00:06:33,000 --> 00:06:35,000

I think it's really simple. I'll just put on a red sweat suit.

102

00:06:35,000 --> 00:06:39,000

I'll stand in the middle of the ring and we'll let some bulls out and see if they charge me.

103

00:06:39,000 --> 00:06:43,000

All right, slow down, partner. Before you start racing around in red, there's rodeo in town.

104

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

Grant and I will go down at the cow palace and find out exactly what you'd be in for.

105

00:06:47,000 --> 00:06:49,000

Because we make better decisions about your safety than you do.

106

00:06:49,000 --> 00:06:51,000

A good idea.

107

00:06:51,000 --> 00:06:54,000

With Tori's career as bull bait on hold,

108

00:06:54,000 --> 00:06:58,000

Karrion Grant mows you down to where bulls are treated like royalty

109

00:06:58,000 --> 00:07:03,000

and the clowns put their limbs on the line.

110

00:07:03,000 --> 00:07:06,000

So you are a rodeo clown at the Grand National Rodeo?

111

00:07:06,000 --> 00:07:08,000

Yes, sir. Sure am.

112

00:07:08,000 --> 00:07:10,000

So is this a dangerous job?

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00:07:10,000 --> 00:07:12,000

Oh, yeah, it can be a very dangerous job.

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00:07:12,000 --> 00:07:16,000

I've last raced my pancreas, I've had a bull stick as horned through my arm.

115

00:07:16,000 --> 00:07:20,000

I've had a bull that I didn't even see him coming hit me right in the side.

116

00:07:20,000 --> 00:07:23,000

He actually broke my femur in four places.

117

00:07:23,000 --> 00:07:25,000

Oh my God. Okay, now I'm a little scared for Tori.

118

00:07:25,000 --> 00:07:30,000

What would a bull, one of these bulls, do to a guy like that?

119

00:07:30,000 --> 00:07:33,000

He can take a cowboy and toss him about 30 foot in the air.

120

00:07:33,000 --> 00:07:37,000

It's unbelievable how strong those animals really are.

121

00:07:37,000 --> 00:07:42,000

That's 1,800 pounds right there and I mean it's coming on full force, it's nothing nice.

122

00:07:42,000 --> 00:07:45,000

That's a mouse.

123

00:07:45,000 --> 00:07:50,000

Sorry, you're not getting to that ring until we're sure the bulls aren't going to charge you.

124

00:07:50,000 --> 00:07:52,000

Sorry, so how are we going to test this myth?

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00:07:52,000 --> 00:07:56,000

Well, this myth is about color, so I think first we need to isolate the color red,

126

00:07:56,000 --> 00:07:58,000

see if that's what makes them charge.

127

00:07:58,000 --> 00:08:03,000

Let's hang up a couple different colored flags and see if the bull goes for the red one every time.

128

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

Cool. You know one other thing we should test is the presence of a human and motion

129

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

because those matadors are constantly moving when they're in the ring.

130

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

Okay, we can build a set of robotic matadors.

131

00:08:14,000 --> 00:08:18,000

Alright, so the team begins by making three makeshift matadors,

132

00:08:18,000 --> 00:08:25,000

each capable of waving a different colored flag and you could say they're itching to get started.

133

00:08:25,000 --> 00:08:29,000

Wait, no, I got another itch, but it's lower.

134

00:08:29,000 --> 00:08:32,000

Can you reach that one? I can't reach.

135

00:08:32,000 --> 00:08:36,000

We're all dying, not really. I'm dying to get into the ring with that bull.

136

00:08:36,000 --> 00:08:38,000

I don't know if Karrion and Grant are, but it's just too dangerous.

137

00:08:38,000 --> 00:08:41,000

So what we're going to do is use these molds to make some foam bodies.

138

00:08:41,000 --> 00:08:46,000

We already have Grant's head cast. We need to make Karrion's now and then eventually I need to make one of mine.

139

00:08:46,000 --> 00:08:47,000

It's new.

140

00:08:47,000 --> 00:08:49,000

So Karrion, what are we going to do next?

141

00:08:49,000 --> 00:08:58,000

Well, what we're going to do right now is weld some of that stuff together and then maybe I'll do something dangerous.

142

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

That sounds amazing.

143

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

Next, they need to put a body to the face and Karrion has insisted they make them out of foam so they don't hurt the charging bulls.

144

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

That's great. Alright, one down, two to go.

145

00:09:13,000 --> 00:09:19,000

As Tori completes the trio of foam bull bait, it all gets a bit weird.

146

00:09:19,000 --> 00:09:26,000

See the thing is, people don't know this. You get rid of the head, you get rid of the identity of the body.

147

00:09:31,000 --> 00:09:38,000

Remember, you got to get rid of the hands and feet too.

148

00:09:43,000 --> 00:09:46,000

A little rough on your partners there, aren't you?

149

00:09:46,000 --> 00:09:56,000

Before Tori does any more damage, Dr. Frank and Grant brings the three foam bullfighters to life with a cunningly placed drill and a few hinges.

150

00:09:56,000 --> 00:10:09,000

This rail is going to go a colored flag. Right here is a drill with a little crank and when I activate it, what it will do is move the flag back and forth, just like this.

151

00:10:09,000 --> 00:10:14,000

Hopefully enticing the bull to chase.

152

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

The final pieces of the puzzle are the colored flags.

153

00:10:18,000 --> 00:10:20,000

This is how lazy people sew.

154

00:10:20,000 --> 00:10:25,000

Now, of course, we're going to test red because, well, that's what the myth is about.

155

00:10:25,000 --> 00:10:28,000

Does Chi-Hee look like me now?

156

00:10:28,000 --> 00:10:35,000

Then we've got white. White is such a high contrast red, we thought that, you know, that would be the perfect opposite.

157

00:10:35,000 --> 00:10:37,000

Alright, dude, that's awesome.

158

00:10:37,000 --> 00:10:44,000

And lastly, blue, which, you know, I figure if you're looking at a black and white screen and you saw these two colors, they'd be very similar.

159

00:10:44,000 --> 00:10:47,000

So the Matadors are dressed to test.

160

00:10:47,000 --> 00:10:49,000

That's what I'm talking about.

161

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

It's time to head on down to the ranch.

162

00:10:51,000 --> 00:10:53,000

Coming up on Mythbusters.

163

00:10:53,000 --> 00:10:56,000

Hot bullets! Get your hot bullets, Diaz!

164

00:10:56,000 --> 00:11:02,000

Things heat up and go off when Adam and Jamie put a gun in their oven.

165

00:11:11,000 --> 00:11:19,000

Adam and Jamie are testing the myth that a kitchen stove used to store ammunition is not just a really bad idea.

166

00:11:19,000 --> 00:11:21,000

I think that's enough.

167

00:11:21,000 --> 00:11:23,000

But lethal.

168

00:11:23,000 --> 00:11:30,000

The guys are basing their investigation on an incident that supposedly left a husband and wife diving for cover.

169

00:11:30,000 --> 00:11:33,000

And their kitchen riddled with bullet holes.

170

00:11:33,000 --> 00:11:40,000

So, what formerly was just an oven from the thrift store now is a full experimental platform.

171

00:11:40,000 --> 00:11:44,000

We've painted it white so that our high-speed camera can see clearly what's going on.

172

00:11:44,000 --> 00:11:48,000

We put tempered glass over here, several sheets to protect the camera.

173

00:11:48,000 --> 00:11:55,000

We put the bullet down there, we pipe in some gas, we get this thing hot in the H.E. double hockey sticks and we watch some science happen.

174

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

There's three questions we're going to answer with this test.

175

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

One is, will the bullets really go off in the oven?

176

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

I think the answer is going to be yes.

177

00:12:02,000 --> 00:12:05,000

Number two, will they get out of that oven?

178

00:12:05,000 --> 00:12:09,000

And number three, if they get out of that oven, how lethal are they?

179

00:12:09,000 --> 00:12:17,000

In our control tests, in the shooting range, we have done a little bit of calibration of some ballistics material that is soundboard and plywood.

180

00:12:17,000 --> 00:12:22,000

We know what it means to be a lethal hit in this arrangement.

181

00:12:22,000 --> 00:12:28,000

So, any bullet that gets out of this oven through this door is going to be hitting this real bullet swallowing backstop.

182

00:12:28,000 --> 00:12:35,000

While Adam rigs a remote temperature probe, Jamie tweaks the oven for high-speed heating.

183

00:12:35,000 --> 00:12:36,000

What's good?

184

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

Hot bullets.

185

00:12:39,000 --> 00:12:48,000

The first test is a .22 caliber shell, which is placed on the rack with the bullet facing the door before the heat is cracked out.

186

00:12:48,000 --> 00:12:50,000

That's perfect, hold it there.

187

00:12:50,000 --> 00:12:53,000

And with the cameras rolling, it's all systems go.

188

00:12:53,000 --> 00:12:57,000

260. My oven never heats up this fast.

189

00:12:57,000 --> 00:13:03,000

And while we wait for the .22 caliber casserole to cook, let's do some learning.

190

00:13:08,000 --> 00:13:11,000

Let's talk a bit about how bullets actually work.

191

00:13:11,000 --> 00:13:12,000

They're in four parts.

192

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

You've got the primer on the end, you have the case, you have the propellant inside, that's the

gunpowder, and then you have the bullet itself on the end.

193

00:13:21,000 --> 00:13:29,000

Now, how this all works is that when you have this in a gun, there's a spring-loaded hammer that fires a pin into that primer.

194

00:13:29,000 --> 00:13:32,000

It sets that off and that ignites the powder.

195

00:13:32,000 --> 00:13:38,000

Now, at that point, the bullet is pushed out of the case and it starts to go down the barrel.

196

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

That's how it works.

197

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

Meanwhile, back in the bunker, things are heating up.

198

00:13:42,000 --> 00:13:47,000

And at just over the 500 Fahrenheit mark, dinner's ready.

199

00:13:47,000 --> 00:13:48,000

There we go.

200

00:13:48,000 --> 00:13:50,000

But what happened?

201

00:13:50,000 --> 00:13:54,000

Smells like science.

202

00:13:54,000 --> 00:13:58,000

Bunker cam shows the glass of the oven door remained intact.

203

00:13:58,000 --> 00:14:01,000

It's quite clear you oriented the bullet pointing out the window.

204

00:14:01,000 --> 00:14:02,000

Yeah.

205

00:14:02,000 --> 00:14:09,000

And yet, the only dent that I see is in the back of the thing, which means that has to have been made by the casing.

206

00:14:09,000 --> 00:14:11,000

And there's a casing right below that.

207

00:14:11,000 --> 00:14:12,000

Yeah.

208

00:14:12,000 --> 00:14:16,000

The shell casing was much more dangerous, it seems, than the bullet, which bounced off of glass.

209

00:14:16,000 --> 00:14:26,000

When a cartridge is cooked, as opposed to shot from a gun, the powder sends the lightweight shell casing flying and not the heavier bullet.

210

00:14:26,000 --> 00:14:34,000

So on the next test, they up the caliber to 44 and flip it so the bullet faces the back of the other.

211

00:14:34,000 --> 00:14:37,000

So what's on the menu, Monsieur Sabage?

212

00:14:37,000 --> 00:14:46,000

Oh, now, you're waiting for the temperature to climb for my greatest creation, 44 calibre soufflé.

213

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

472 degrees.

214

00:14:49,000 --> 00:14:51,000

There it goes.

215

00:14:51,000 --> 00:14:52,000

Good.

216

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

Ha ha.

217

00:14:54,000 --> 00:14:56,000

The glass is still there.

218

00:14:56,000 --> 00:14:58,000

No breaking of the glass.

219

00:14:58,000 --> 00:14:59,000

Yep.

220

00:14:59,000 --> 00:15:04,000

Just like the 22, the shrapnel from the 44 round failed to pierce the oven.

221

00:15:04,000 --> 00:15:08,000

So let's go for broke with a 50 caliber monster.

222

00:15:08,000 --> 00:15:10,000

Let's take a comparison here.

223

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

Oh, there's the 44.

224

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

Oh, wait, and there's the 22.

225

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

If anything's going to cause significant damage to the oven, it's this guy.

226

00:15:19,000 --> 00:15:24,000

And around 10 minutes later, it sounds like Adam's prediction is spot on.

227

00:15:27,000 --> 00:15:29,000

That's the explosion I was looking for.

228

00:15:33,000 --> 00:15:38,000

A look at the high speed reveals a more energetic detonation than the previous tests.

229

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

Oh, we have broken glass.

230

00:15:41,000 --> 00:15:43,000

We have broken glass.

231

00:15:44,000 --> 00:15:46,000

Broken but not breached.

232

00:15:46,000 --> 00:15:51,000

Only the inner layer of the double glazed oven door was shattered.

233

00:15:51,000 --> 00:15:55,000

It was pretty violent, all right, but it's still inside the oven.

234

00:15:55,000 --> 00:15:59,000

Even the 50 cal wasn't enough to get out of this oven.

235

00:15:59,000 --> 00:16:01,000

I'm really pleased with these tests.

236

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

I think we've definitively proven that an oven at normal temperatures can get plenty hot enough to make bullets explode.

237

00:16:08,000 --> 00:16:17,000

What I'd like to know now is, if I chambered a bullet inside a pistol and put it in the oven, would it explode in any way that would be dangerous?

238

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

Going back to the myth, our guy not only stored his ammo in the oven, he left his guns in there too.

239

00:16:24,000 --> 00:16:32,000

So this test is the absolute worst case scenario, a loaded 44 caliber revolver facing the door.

240

00:16:32,000 --> 00:16:36,000

Hot bullets! Get your hot bullets here!

241

00:16:38,000 --> 00:16:39,000

I think that went off.

242

00:16:39,000 --> 00:16:40,000

I think you're right.

243

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

I think I heard glass shattering.

244

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

The evidence paints a deadly picture.

245

00:16:46,000 --> 00:16:54,000

The bullet left the barrel at a lethal velocity, shattering the toughened glass, before penetrating the wooden backstop.

246

00:16:55,000 --> 00:17:00,000

It's a perfect result for us because the ammunition in every way that we tested is totally busted.

247

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

None of it ever got out of the oven with any force that could be construed as dangerous.

248

00:17:04,000 --> 00:17:10,000

However, the moment you put one of those pieces of ammunition into a weapon, it becomes really deadly.

249

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

That, my friend, is a kill.

250

00:17:14,000 --> 00:17:22,000

Yeah, putting a pistol or gun loaded in your oven is a very, very easy way to get yourself shot.

251

00:17:22,000 --> 00:17:24,000

Yeah, not just shot, shot and killed.

252

00:17:24,000 --> 00:17:29,000

A loaded gun in an oven could kill you. Myth confirmed, I'd say.

253

00:17:29,000 --> 00:17:30,000

Confirmed.

254

00:17:34,000 --> 00:17:40,000

As amazing as it seems, we're gonna ramp this puppy up, we've got can fire spear, can't get some buckets of barbecue bullets, and even still, we couldn't fit it all into the episode.

255

00:17:40,000 --> 00:17:45,000

To see what we had to leave out, log on to [discovery.com slash mythbusters](http://discovery.com/slash/mythbusters).

256

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

Coming up next on Mythbusters, will a red flag make a bull go nuts?

257

00:17:49,000 --> 00:17:52,000

Not right now, Grant, it's a really bad idea.

258

00:17:58,000 --> 00:18:02,000

Carrie Grant and Tori are testing red flag to a bull.

259

00:18:02,000 --> 00:18:05,000

Alright, so, red flag to a bull, where do we stand?

260

00:18:05,000 --> 00:18:09,000

All the flag waving dummies are done, and we've dressed up the Carrie one in red.

261

00:18:09,000 --> 00:18:11,000

We'll see if that drives them wild.

262

00:18:11,000 --> 00:18:12,000

I'm sure it will.

263

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

That's good, because I got some bulls for ya.

264

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

Rodney the rodeo clown set us up with a friend of his, who apparently has some angry bulls.

265

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

Sweet, alright, well let's pack up and get up there.

266

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

I heard that.

267

00:18:28,000 --> 00:18:31,000

But, back to the cuddly bulls.

268

00:18:31,000 --> 00:18:36,000

So, our three amigos have their bulls, and their destination, the Kish Bull Ranch.

269

00:18:36,000 --> 00:18:42,000

And this series of tests has been designed to find out if a red flag will make a bull charge.

270

00:18:42,000 --> 00:18:45,000

And if not, then what does?

271

00:18:45,000 --> 00:18:51,000

The team will compare static flags to movement, and introduce the makeshift matadors.

272

00:18:51,000 --> 00:18:55,000

But first things first, the setup for the single red flag test.

273

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

Let's run a zip line all the way across the arena.

274

00:18:58,000 --> 00:19:03,000

We can tie a flag to it, just leave it static first, see if the bull charges.

275

00:19:03,000 --> 00:19:08,000

These bulls look ready, they look more than ready, so maybe we should get out of the pin, and get the tests going.

276

00:19:08,000 --> 00:19:12,000

Okay, test number one, static red flag.

277

00:19:12,000 --> 00:19:15,000

Okay, go ahead, let the bull out.

278

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

Oh, this guy's full of fire.

279

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

Dude, he's going for it.

280

00:19:27,000 --> 00:19:32,000

Just like the myth suggests, the bull is not happy with that red flag.

281

00:19:32,000 --> 00:19:36,000

Well, maybe we should try the blue flag, and see if he has the same reaction.

282

00:19:36,000 --> 00:19:38,000

Okay, let's switch it out.

283

00:19:38,000 --> 00:19:42,000

The bull totally charged the red flag, but it was the only thing in the pin.

284

00:19:42,000 --> 00:19:49,000

So, to make sure that it's the color that attracted the bull, we put a blue flag in the pin, and we're going to do the testing with another bull.

285

00:19:49,000 --> 00:19:51,000

Wow.

286

00:19:51,000 --> 00:19:53,000

Ah!

287

00:19:53,000 --> 00:19:55,000

Well, he did go for the blue.

288

00:19:55,000 --> 00:19:58,000

He's totally convinced, unless he goes again.

289

00:19:58,000 --> 00:19:59,000

Here we go.

290

00:19:59,000 --> 00:20:00,000

Here he goes.

291

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

This is great.

292

00:20:02,000 --> 00:20:05,000

Yeah!

293

00:20:05,000 --> 00:20:08,000

Are you satisfied? Would you say he charged the blue flag?

294

00:20:08,000 --> 00:20:10,000

He definitely charged the blue flag.

295

00:20:10,000 --> 00:20:13,000

But satisfied I'm not, I think we should try the white one as well.

296

00:20:13,000 --> 00:20:17,000

But the single white flag yields exactly the same result.

297

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

Oh!

298

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

There's your answer.

299

00:20:22,000 --> 00:20:29,000

It seems that any flapping piece of cloth annoys these bulls, meaning this myth is already on shaky ground.

300

00:20:29,000 --> 00:20:34,000

And the next test, a multiple choice, confirms that suspicion.

301

00:20:34,000 --> 00:20:36,000

Yeah, bull!

302

00:20:36,000 --> 00:20:38,000

White, blue!

303

00:20:38,000 --> 00:20:40,000

That was perfect!

304

00:20:40,000 --> 00:20:41,000

All three!

305

00:20:41,000 --> 00:20:44,000

That three flag flyby means only one thing.

306

00:20:44,000 --> 00:20:47,000

These bulls just don't care for color.

307

00:20:47,000 --> 00:20:52,000

But if it's not color, what exactly is it that's bothering our bovine friends?

308

00:20:52,000 --> 00:20:59,000

This next experiment will test the theory that it's a moving flag and not a red flag that infuriates them.

309

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

Gone for blue?

310

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

With Grant in control of the blue flag with his remote control.

311

00:21:04,000 --> 00:21:06,000

He's going for the blue!

312

00:21:06,000 --> 00:21:08,000

Yeah!

313

00:21:08,000 --> 00:21:12,000

The results are there for all to see.

314

00:21:12,000 --> 00:21:14,000

Move it, move it, move it, move it.

315

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

Look at that!

316

00:21:16,000 --> 00:21:18,000

Yeah!

317

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

I am totally convinced!

318

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

It's movement that triggers an aggressive charge response and not the color red, which leaves the myth looking busted

319

00:21:28,000 --> 00:21:33,000

at our trio of tall tailed tacklers speaking in bold.

320

00:21:33,000 --> 00:21:35,000

Those are whales.

321

00:21:35,000 --> 00:21:42,000

Next, Torridor Torri hopes he'll be breakdancing and not breaking bones when he steps into the ring.

322

00:21:42,000 --> 00:21:45,000

This is starting to feel like a bad idea.

323

00:21:48,000 --> 00:21:51,000

Remember, don't try this at home.

324

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

We've got years of experience that keeps us safe.

325

00:21:54,000 --> 00:22:05,000

Back at the ranch, Carrie Grant and Torri are hot on the trail of the red flag to a bullman.

326

00:22:05,000 --> 00:22:12,000

We've done so far, it's taken several different colored flags, red, white and blue, and compared them to motion.

327

00:22:12,000 --> 00:22:16,000

And it looks like at this point, the bull is preferring motion over color.

328

00:22:16,000 --> 00:22:19,000

What we're going to do now is add the human element.

329

00:22:19,000 --> 00:22:26,000

We've got our three dummies lined up and they're going to be waving their flags and see which one the bull goes for.

330

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

Oh, oh, now it's going for white!

331

00:22:28,000 --> 00:22:29,000

What?

332

00:22:29,000 --> 00:22:30,000

Look at that!

333

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

Now that is conclusive.

334

00:22:32,000 --> 00:22:38,000

The bull went straight for the white dummy and Grant's stunt double requires CPR.

335

00:22:38,000 --> 00:22:40,000

Don't give up on me now!

336

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

Are you done playing with yourself?

337

00:22:42,000 --> 00:22:48,000

There's two dummies still standing and for the final showdown, the guys decide to up the ante.

338

00:22:48,000 --> 00:22:53,000

Apparently these guys have a Mexican fighting bull and these things are trained just for that to attack.

339

00:22:53,000 --> 00:22:55,000

Oh, he just moved past!

340

00:22:55,000 --> 00:22:57,000

Oh, wait, look at that!

341

00:22:57,000 --> 00:22:58,000

Isn't that cool?

342

00:22:58,000 --> 00:23:01,000

It's like the last one standing is Carrie Red.

343

00:23:01,000 --> 00:23:06,000

Yep, quite simply, color is irrelevant.

344

00:23:06,000 --> 00:23:10,000

These bulls just want you to butt out.

345

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

Well, now that we've wrecked three of our dummies, I guess we have one left?

346

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

Well, buddy, it's your turn to suit up.

347

00:23:17,000 --> 00:23:20,000

Are you serious? I get to go in the ring?

348

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

Yeah, well, you know, we've proven that Red specifically is not what's making them charge.

349

00:23:25,000 --> 00:23:36,000

So I'm fairly certain that if you put on a red suit and stand completely still and the bullfighters run around you wearing other colors, that you probably won't get hurt.

350

00:23:36,000 --> 00:23:47,000

And to confirm Tori is unlikely to be gorge for science, Grant Carrie and our hands-on expert from the University of Phoenix, Professor Andrews, have been discussing a bullseye view.

351

00:23:47,000 --> 00:23:56,000

So far our findings do not show that Red does anything magical. They seem to go towards movement rather than actually for the color red.

352

00:23:56,000 --> 00:23:58,000

Why is that? Are they colorblind?

353

00:23:58,000 --> 00:24:03,000

Well, it's a common misconception that they are colorblind, but in fact they're not.

354

00:24:03,000 --> 00:24:09,000

In the last ten years, people have looked at animals with hooves and found out that they're what's called dichromates.

355

00:24:09,000 --> 00:24:17,000

They can see two main color types. Humans are trichromates. We can see the rainbow and all the colors in between.

356

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

Color perception is a complex field of study, but basically the human eye has three types of cone cells that help us distinguish color.

357

00:24:26,000 --> 00:24:37,000

But cattle only have two. So although they can see reds and blues, it's likely they see the world with a muted palette of color, like this.

358

00:24:37,000 --> 00:24:47,000

Okay then. So bulls can see red, but there is no scientific evidence to prove that makes them any more enraged than any other color.

359

00:24:47,000 --> 00:24:51,000

Absolutely. There is no scientific evidence to support that.

360

00:24:51,000 --> 00:25:03,000

Which puts the final nail in the coffin for Red Flag to a Bull. And risking joining the myth in this coffin is Tori, who's quite literally putting his limbs on the line for science.

361

00:25:03,000 --> 00:25:05,000

Nervous? Hell yeah, I'm nervous.

362

00:25:05,000 --> 00:25:15,000

This is our ultimate test of the color red to a bull myth. Now what Tori's going to do is he's going to wear a full red jumpsuit and stand in the middle of the arena completely still.

363

00:25:15,000 --> 00:25:21,000

We have two professional bullfighters that are going to be running circles all around trying to attract the bulls.

364

00:25:21,000 --> 00:25:31,000

We think that motion is what sets them off and not the color red. So if the bulls attack the cowboys, they don't go for Tori, we will have definitely proven something about this myth.

365

00:25:31,000 --> 00:25:34,000

Personally, I'm really concerned.

366

00:25:34,000 --> 00:25:37,000

This is starting to feel like a bad idea.

367

00:25:38,000 --> 00:25:41,000

Tori, are you ready? I don't know.

368

00:25:42,000 --> 00:25:44,000

Yeah, I guess.

369

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

Let's do it.

370

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

Okay, release the bull.

371

00:25:48,000 --> 00:25:51,000

This is it, the moment of truth.

372

00:25:52,000 --> 00:25:54,000

Oh my gosh, running around.

373

00:25:55,000 --> 00:26:02,000

It's a good start. The angry 1,000 pound bull has so far only charged the moving cowboys.

374

00:26:02,000 --> 00:26:05,000

Somebody come back to this side now. Come over to this side.

375

00:26:05,000 --> 00:26:12,000

But suddenly with the cowboys out of position, Tori is left exposed. Will the myth or Tori be

busted?

376

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

Everybody stay sharp. He's on the Tori side of the ring. He sees Tori.

377

00:26:18,000 --> 00:26:20,000

More movement, more movement.

378

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

Good job, dude. Good job.

379

00:26:27,000 --> 00:26:29,000

He's looking right at us. I know, I know.

380

00:26:29,000 --> 00:26:36,000

Tori and Tori survives and as the bull is ushered away, everyone lets out a big sigh of relief.

381

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

All right, should we do a couple more? No.

382

00:26:40,000 --> 00:26:44,000

I'm not going to lie, that was a lot of fun. But we proved something too.

383

00:26:44,000 --> 00:26:47,000

Yeah, the color red is not what causes the bulls to charge.

384

00:26:47,000 --> 00:26:53,000

They had no preference to color at all. In fact, it looked like they were going for whichever one was moving the most.

385

00:26:53,000 --> 00:26:56,000

A good thing for me, red flag to a bull is busted.

386

00:26:56,000 --> 00:26:57,000

Busted.

387

00:26:57,000 --> 00:26:58,000

I'm glad you're not.

388

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

That was fun.

389

00:27:17,000 --> 00:27:22,000

Jamie and Adam have confirmed that a loaded gun in your oven is a recipe for disaster.

390

00:27:22,000 --> 00:27:24,000

That, my friend, is a kill.

391

00:27:26,000 --> 00:27:33,000

But the guys are still fanning the flames of this myth. They want to test bullets on an innocent old campfire.

392

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

We've seen what happens when we put hot bullets into an oven.

393

00:27:37,000 --> 00:27:44,000

But I like to know what happens to them when they're unrestrained and we have plenty of reports of people throwing bullets into a campfire.

394

00:27:44,000 --> 00:27:46,000

So I think that's what we should do next.

395

00:27:46,000 --> 00:27:47,000

Sure.

396

00:27:47,000 --> 00:27:52,000

So it's hot bullets, take two. And this time there won't be an oven door inside.

397

00:27:52,000 --> 00:27:59,000

We're going to do this remotely and I've come up with the idea that I might use this little remote control robot that I have.

398

00:27:59,000 --> 00:28:06,000

So I'm going to put some sort of a thing that I can tip or dump things into the fire with this safely from a distance.

399

00:28:06,000 --> 00:28:09,000

Meanwhile, Adam's been building a ballistic teepee.

400

00:28:09,000 --> 00:28:14,000

This is the system for detecting exactly how lethal bullets thrown in a campfire are.

401

00:28:14,000 --> 00:28:20,000

I'd love to use ballistic gelatin around the campfire, but because it's thermally reactive, it would melt.

402

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

So I came up with this idea of wood and sound board.

403

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

And I'm going to place 12 of these around my metal framework in the middle of which will be the campfire.

404

00:28:30,000 --> 00:28:39,000

This won't catch on fire, but as bullets are exploding in here, if they're lethal, we're going to see the marks they make in the face of these triangles.

405

00:28:39,000 --> 00:28:44,000

It's time to hit the Alameda County Bomb Disposal Range with a munitions expert.

406

00:28:47,000 --> 00:28:51,000

His honorary myth buster, J.D. Nelson.

407

00:28:51,000 --> 00:28:57,000

First up, there's a fire to be built, so our overgrown boy scouts swing into action.

408

00:28:57,000 --> 00:29:01,000

I think that's about the fastest fire I've ever built. It's dry as a bone out here.

409

00:29:01,000 --> 00:29:05,000

You know, it's making me hungry for lunch, that great wood smoke smell.

410

00:29:05,000 --> 00:29:07,000

That is bloody delicious.

411

00:29:07,000 --> 00:29:11,000

After lunch, Jamie takes us through the test setup.

412

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

This whole setup is very simple. We're going to have the robot back over near our blast chamber.

413

00:29:16,000 --> 00:29:24,000

The fire is going. We're going to load the bullets into the dumper on the robot, send the robot in, dump the bullets into the fire, see what happens.

414

00:29:24,000 --> 00:29:34,000

Sparky the robot takes his deadly cargo on board. It's a brass cocktail of 50, 44 and 22 caliber bullets.

415

00:29:34,000 --> 00:29:37,000

This is sparky!

416

00:29:37,000 --> 00:29:43,000

With the fire roaring at over a thousand degrees, Adam and Jamie are expecting an instant reaction.

417

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

Okay, anybody have issues? I'm going in.

418

00:29:46,000 --> 00:29:47,000

Go for it.

419

00:29:47,000 --> 00:29:49,000

Okay, going down.

420

00:29:51,000 --> 00:29:52,000

Perfect!

421

00:30:02,000 --> 00:30:04,000

I could not have gone any better.

422

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

But the show ain't over yet. At a close encounter of the ballistic kind...

423

00:30:10,000 --> 00:30:12,000

Everybody get close to the shield.

424

00:30:12,000 --> 00:30:15,000

I heard those suckers going whizzing by us.

425

00:30:15,000 --> 00:30:19,000

Reminds everyone of the difference between this and the oven test.

426

00:30:19,000 --> 00:30:23,000

There's no steel box slowing down the shrapnel.

427

00:30:23,000 --> 00:30:26,000

Oh, that was one of the big ones.

428

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

That was fun.

429

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

Okay, now I'm worried that the fire coals could set fire to our uprights.

430

00:30:35,000 --> 00:30:39,000

So I'm inclined to wait a few minutes, but then head in with the hose.

431

00:30:39,000 --> 00:30:43,000

Why don't we unhinge one of these blast chambers and walk out with it?

432

00:30:43,000 --> 00:30:45,000

I feel like we can get close enough with this.

433

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

The other thing is that...

434

00:30:49,000 --> 00:30:52,000

Alright, let's walk with one of these in front of us.

435

00:30:53,000 --> 00:30:57,000

I'm just keeping the panel between me and the fire the whole time.

436

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

It's clear there's a whole bunch of bullets that are just not fired.

437

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

They got ejected from the general mayhem there that didn't go off.

438

00:31:05,000 --> 00:31:09,000

Which is actually an important part of the myth because you could throw a bunch in the fire

439

00:31:09,000 --> 00:31:12,000

and then think it was safe and go back in and then get nailed.

440

00:31:12,000 --> 00:31:13,000

Right.

441

00:31:13,000 --> 00:31:14,000

Oh, there's some hits.

442

00:31:14,000 --> 00:31:21,000

The early conclusions from this forensic assessment indicate throwing bullets on a campfire could be lethal.

443

00:31:21,000 --> 00:31:23,000

This right here is a 50 caliber bullet.

444

00:31:23,000 --> 00:31:26,000

Probably came out of a casing just like this.

445

00:31:26,000 --> 00:31:28,000

You see how much energy that is.

446

00:31:28,000 --> 00:31:30,000

It's a brass pipe bomb.

447

00:31:30,000 --> 00:31:33,000

But a closer look reveals key details.

448

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

Once again, it's the lightweight casing that becomes the projectile and not the bullet itself.

449

00:31:39,000 --> 00:31:40,000

Check this out.

450

00:31:40,000 --> 00:31:43,000

This is the deepest pair of hits we took.

451

00:31:43,000 --> 00:31:47,000

This one matches the rear of the casing exactly, even the dimple.

452

00:31:47,000 --> 00:31:48,000

Yeah.

453

00:31:48,000 --> 00:31:50,000

That's the deepest one out of all those hundreds of bullets

454

00:31:50,000 --> 00:31:53,000

and I don't think that would even still break your skin.

455

00:31:53,000 --> 00:31:57,000

Yeah, I think personally you'd be pretty bloody, but you wouldn't be dead.

456

00:31:57,000 --> 00:32:04,000

Well, you know me and Jamie, the fun can't end just there.

457

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

There's been plenty of idiotic things that people have thrown into campfires

458

00:32:08,000 --> 00:32:11,000

and we're going to try as many of them as we have time for.

459

00:32:11,000 --> 00:32:17,000

Next on MythBusters, Carrie Grant and Tori let up full loose in a china shop.

460

00:32:17,000 --> 00:32:18,000

Ridiculous.

461

00:32:18,000 --> 00:32:22,000

And Jamie and Adam surprise no one when they ramp things up.

462

00:32:22,000 --> 00:32:23,000

Whoa!

463

00:32:28,000 --> 00:32:33,000

Music

464

00:32:33,000 --> 00:32:39,000

Carrie Grant and Tori have already busted the myth that bow vines are bothered by red.

465

00:32:39,000 --> 00:32:43,000

But the ball's still rolling around this bullpen.

466

00:32:46,000 --> 00:32:49,000

Well now that we have access to a whole herd of angry bulls,

467

00:32:49,000 --> 00:32:51,000

there's a saying I've always wanted to test.

468

00:32:51,000 --> 00:32:52,000

What's that?

469

00:32:52,000 --> 00:32:56,000

Well, you know how they say Tori is like a bull in a china shop?

470

00:32:56,000 --> 00:32:57,000

No.

471

00:32:57,000 --> 00:33:01,000

I want to know what's going to happen if we actually put a bull in a china shop.

472

00:33:01,000 --> 00:33:03,000

You mean is it going to be just dish carnage?

473

00:33:03,000 --> 00:33:04,000

Yeah.

474

00:33:08,000 --> 00:33:09,000

It's a vivid simile.

475

00:33:09,000 --> 00:33:14,000

When you say someone is like a bull in a china shop, it means they're clumsy.

476

00:33:14,000 --> 00:33:16,000

A clutch.

477

00:33:16,000 --> 00:33:19,000

And you know, likely to break stuff.

478

00:33:19,000 --> 00:33:25,000

But surely it's time this old wives tale was put under the microscope of modern science.

479

00:33:26,000 --> 00:33:30,000

And to kick things off, Carrie and Tori are down at Thriftown.

480

00:33:30,000 --> 00:33:32,000

Grandma?

481

00:33:32,000 --> 00:33:36,000

Where Carrie manages to get enough crockery to stock a china shop

482

00:33:36,000 --> 00:33:38,000

before Tori gets them thrown out.

483

00:33:38,000 --> 00:33:42,000

Back at HQ with the help of the fast forward button,

484

00:33:42,000 --> 00:33:45,000

Carrie marks up some bull friendly foam shelves.

485

00:33:45,000 --> 00:33:50,000

Now I'm pretty sure that this foam board is not going to hurt the bulls.

486

00:33:50,000 --> 00:33:55,000

But to make 100% certain, I want to test

487

00:33:55,000 --> 00:33:57,000

to make sure they don't get harmed.

488

00:33:57,000 --> 00:34:02,000

After they fix those shelves and Tori's bulls, it's back to the ranch.

489

00:34:02,000 --> 00:34:05,000

Where they set up shop inside a bullpen.

490

00:34:05,000 --> 00:34:08,000

This one looks like it's ready to go without the bull.

491

00:34:08,000 --> 00:34:10,000

That's the worst one.

492

00:34:10,000 --> 00:34:16,000

With the china stack precariously and the thousand pound bulls raring to go,

493

00:34:16,000 --> 00:34:21,000

surely we're about to witness the most predictable outcome in this Buster history.

494

00:34:21,000 --> 00:34:25,000

Bullvine Bedlam at a whole heap of cracked crockery.

495

00:34:25,000 --> 00:34:28,000

Oh dang! Here comes the bull!

496

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

Look, he's totally avoiding all the china.

497

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

Oh no!

498

00:34:33,000 --> 00:34:35,000

Nope.

499

00:34:35,000 --> 00:34:38,000

He's actually doing a lot better than I thought he would.

500

00:34:38,000 --> 00:34:39,000

Absolutely.

501

00:34:39,000 --> 00:34:41,000

Come over here.

502

00:34:41,000 --> 00:34:42,000

Come on, come on.

503

00:34:42,000 --> 00:34:43,000

He's praising.

504

00:34:43,000 --> 00:34:45,000

He likes what he sees.

505

00:34:45,000 --> 00:34:48,000

So the first guy has let the team down.

506

00:34:48,000 --> 00:34:53,000

They were expecting the bull in a china shop to be like, well, a bull in a china shop.

507

00:34:53,000 --> 00:34:59,000

Whoa, he's getting right through the shelves without knocking over a single piece.

508

00:34:59,000 --> 00:35:00,000

That was cool.

509

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

Even when they upped the ante, two bulls in a china shop.

510

00:35:03,000 --> 00:35:07,000

The expected carnage is distinctly underwhelming.

511

00:35:07,000 --> 00:35:09,000

Look at that.

512

00:35:09,000 --> 00:35:13,000

They're very careful of the breaking china.

513

00:35:13,000 --> 00:35:22,000

We've tried actual bulls in our mock china shop and I have to say I am really surprised at how nimble they are.

514

00:35:22,000 --> 00:35:26,000

They're almost daintily avoiding the shelves that we've set up.

515

00:35:26,000 --> 00:35:29,000

They just don't want to break the china.

516

00:35:29,000 --> 00:35:31,000

Check this out.

517

00:35:34,000 --> 00:35:37,000

You know what, I didn't even think I could run that fast in a china shop.

518

00:35:37,000 --> 00:35:39,000

This is ridiculous.

519

00:35:39,000 --> 00:35:47,000

Like all great Mythbuster stories, it's the ones that defy expectations that give the team the greatest pleasure.

520

00:35:47,000 --> 00:35:54,000

They came here wanting crockery catastrophe, but they got a bull ballet.

521

00:35:54,000 --> 00:35:56,000

That was nothing like I imagined it to be.

522

00:35:56,000 --> 00:35:58,000

In fact, I think we're going to have to just admit it.

523

00:35:58,000 --> 00:36:00,000

It's a stupid saying.

524

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

I'm never going to use it again.

525

00:36:01,000 --> 00:36:03,000

Bull in a china shop busted.

526

00:36:03,000 --> 00:36:04,000

Busted.

527

00:36:04,000 --> 00:36:05,000

It's busted.

528

00:36:10,000 --> 00:36:16,000

I think it's a gravy boat over there I want.

529

00:36:16,000 --> 00:36:18,000

Got it.

530

00:36:18,000 --> 00:36:19,000

Yeah.

531

00:36:39,000 --> 00:36:42,000

But probably not lethal pastime.

532

00:36:42,000 --> 00:36:43,000

That was fun.

533

00:36:43,000 --> 00:36:45,000

But they ain't done yet.

534

00:36:45,000 --> 00:36:54,000

There are a host of news reports and claims by fans that campfire conflagrations with beer kegs and aerosols are lethal.

535

00:36:54,000 --> 00:37:00,000

Exposure to temperatures above 120 degrees may cause bursting.

536

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

Roll it.

537

00:37:01,000 --> 00:37:03,000

Here comes the bug spray.

538

00:37:05,000 --> 00:37:06,000

Go for it.

539

00:37:07,000 --> 00:37:11,000

Now it's possible you may ignore the warnings on the can.

540

00:37:11,000 --> 00:37:13,000

This is the kind of thing I do on the weekends.

541

00:37:13,000 --> 00:37:17,000

Or you think the elaborate safety precautions are just for show.

542

00:37:17,000 --> 00:37:20,000

Let's give some deodorant to our robot and send him to the fire.

543

00:37:20,000 --> 00:37:23,000

But really, don't try this at home.

544

00:37:23,000 --> 00:37:24,000

There we go.

545

00:37:24,000 --> 00:37:25,000

Perfect.

546

00:37:25,000 --> 00:37:31,000

Because seconds or minutes later and you won't know which this could happen.

547

00:37:31,000 --> 00:37:33,000

Oh!

548

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

Where's the other one?

549

00:37:39,000 --> 00:37:40,000

The other one's out front.

550

00:37:44,000 --> 00:37:45,000

Yeah!

551

00:37:45,000 --> 00:37:47,000

That was awesome!

552

00:37:48,000 --> 00:37:52,000

Quite simply, it's the reason a myth buster gets out of bed in the morning.

553

00:37:52,000 --> 00:37:56,000

Oh my god, that's like, it doesn't get me better.

554

00:37:57,000 --> 00:38:00,000

Oh, it's staying in frame.

555

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

It's cooperative.

556

00:38:01,000 --> 00:38:03,000

But what about the myth?

557

00:38:03,000 --> 00:38:05,000

Would these fireballs be fatal?

558

00:38:05,000 --> 00:38:08,000

Well, I don't necessarily think it's lethal.

559

00:38:08,000 --> 00:38:10,000

It's definitely took a while to happen.

560

00:38:10,000 --> 00:38:13,000

So you might think, oh well, I guess nothing's gonna happen.

561

00:38:13,000 --> 00:38:15,000

And come back over and hear, boom!

562

00:38:15,000 --> 00:38:18,000

All of a sudden your head's in a fireball and you're missing an eyebrow.

563

00:38:18,000 --> 00:38:20,000

And I know what that's like.

564

00:38:22,000 --> 00:38:24,000

Am I missing an eyebrow?

565

00:38:24,000 --> 00:38:30,000

Next up, I think though, we're gonna go to the main big source fire instead of a small one here.

566

00:38:30,000 --> 00:38:34,000

Because I got something really big to surprise Jamie with.

567

00:38:34,000 --> 00:38:37,000

Bullets and paint cans aren't good enough for you, huh?

568

00:38:37,000 --> 00:38:40,000

No, we have something else that people have thrown on a campfire.

569

00:38:40,000 --> 00:38:41,000

What's that?

570

00:38:42,000 --> 00:38:43,000

Beer keg.

571

00:38:44,000 --> 00:38:50,000

It's a dangerous frat boy stunt and the fansites are abuzz with rumors that it could be lethal.

572

00:38:50,000 --> 00:38:53,000

And the myth busters are reaching to find out.

573

00:38:53,000 --> 00:38:55,000

Oh jeez, hold on, hold on, hold on.

574

00:38:55,000 --> 00:38:58,000

Dude, no, throw a full keg onto a fire.

575

00:38:58,000 --> 00:39:00,000

It's just not gonna happen.

576

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

Okay, here's what I'm envisioning.

577

00:39:02,000 --> 00:39:04,000

It's the end of the night.

578

00:39:04,000 --> 00:39:06,000

There's only like a quarter tank left.

579

00:39:07,000 --> 00:39:09,000

Beer's almost gone and it's warm.

580

00:39:09,000 --> 00:39:11,000

And they're all sloppy drunk.

581

00:39:13,000 --> 00:39:15,000

And that's when someone throws a keg on the fire.

582

00:39:15,000 --> 00:39:17,000

I throw the keg on the fire.

583

00:39:17,000 --> 00:39:20,000

We need to get rid of most of this beer.

584

00:39:21,000 --> 00:39:26,000

With the keg primed and ready to blow, Adam and Jamie turn their minds to safety.

585

00:39:26,000 --> 00:39:30,000

The fire is really hot and this is not an undangerous thing to do.

586

00:39:30,000 --> 00:39:33,000

But we have a couple of pieces of safety gear here.

587

00:39:33,000 --> 00:39:36,000

One, we've got the fire suit which can protect us from the heat.

588

00:39:36,000 --> 00:39:40,000

And the other is, over here with the Alameda County Sheriff's bomb squad,

589

00:39:40,000 --> 00:39:44,000

and we've got their bomb squad van, and in the bomb squad van is a bomb suit.

590

00:39:44,000 --> 00:39:47,000

Hell, people of Earth, I come in peace.

591

00:39:47,000 --> 00:39:50,000

So what we're gonna do is Jamie's gonna put on one, I'm gonna put on the other.

592

00:39:50,000 --> 00:39:53,000

And suited up in the bomb suit and the fire suit,

593

00:39:53,000 --> 00:39:56,000

we're gonna go put that keg exactly where we want it.

594

00:39:56,000 --> 00:39:58,000

This could be a huge explosion.

595

00:39:58,000 --> 00:40:01,000

There's an awful lot of energy contained in that fire

596

00:40:01,000 --> 00:40:05,000

and that energy is gonna be transferred to that beer keg.

597

00:40:05,000 --> 00:40:06,000

Yeah!

598

00:40:06,000 --> 00:40:08,000

We need to be careful with this.

599

00:40:08,000 --> 00:40:09,000

Okay.

600

00:40:13,000 --> 00:40:17,000

This could go off right now or an hour from now, for all we know.

601

00:40:17,000 --> 00:40:18,000

But that fire is hot.

602

00:40:18,000 --> 00:40:19,000

Yeah.

603

00:40:19,000 --> 00:40:23,000

Which means it's gonna bring the stainless steel to its fatigue point

604

00:40:23,000 --> 00:40:28,000

and it's gonna build up a tremendous amount of steam pressure inside from the gallon of beer we left.

605

00:40:28,000 --> 00:40:29,000

Yeah.

606

00:40:29,000 --> 00:40:32,000

So hopefully those two things will combine to make it go off within,

607

00:40:32,000 --> 00:40:35,000

I'm guessing, 20-25 minutes.

608

00:40:35,000 --> 00:40:38,000

Which as it turns out is a pretty good guess.

609

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

Because 20 minutes later...

610

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

Oh!

611

00:40:41,000 --> 00:40:44,000

Okay, everybody in close.

612

00:40:44,000 --> 00:40:46,000

Cave Shrapnel coming to us down.

613

00:40:46,000 --> 00:40:49,000

It's the patented myth buster Big Boom.

614

00:40:49,000 --> 00:40:50,000

Oh!

615

00:40:51,000 --> 00:40:53,000

Yeah, it smelled like roasted grain.

616

00:40:56,000 --> 00:40:58,000

That's pretty darned.

617

00:40:58,000 --> 00:41:00,000

That's an explosion.

618

00:41:00,000 --> 00:41:02,000

That was energetic.

619

00:41:02,000 --> 00:41:04,000

No shrapnel though.

620

00:41:04,000 --> 00:41:05,000

No?

621

00:41:05,000 --> 00:41:06,000

Not that I can see.

622

00:41:06,000 --> 00:41:09,000

A closer look confirms Adam's hypothesis.

623

00:41:09,000 --> 00:41:15,000

Because despite peeling like a metal banana, the keg is still in one piece.

624

00:41:15,000 --> 00:41:17,000

As far as I'm concerned,

625

00:41:17,000 --> 00:41:20,000

if any single piece of this actually, I mean...

626

00:41:20,000 --> 00:41:21,000

That almost made it off.

627

00:41:21,000 --> 00:41:22,000

That almost made it off.

628

00:41:22,000 --> 00:41:26,000

Any piece of this, especially this center cap, which really almost made it off,

629

00:41:26,000 --> 00:41:30,000

comes off of this with the force that we heard, it's tearing right through you.

630

00:41:30,000 --> 00:41:32,000

That hits you in the head, you're dead.

631

00:41:32,000 --> 00:41:33,000

Hits you in the chest, you're dead.

632

00:41:33,000 --> 00:41:34,000

That's nasty.

633

00:41:34,000 --> 00:41:38,000

An opinion not tempered by the slow motion details.

634

00:41:38,000 --> 00:41:39,000

Wow!

635

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

Look at that!

636

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

Talk about a beer shooter.

637

00:41:44,000 --> 00:41:46,000

That is... wow!

638

00:41:46,000 --> 00:41:50,000

I tell you, anything in front of that beer keg are log, rock, a stone,

639

00:41:50,000 --> 00:41:52,000

going to become a lethal projectile.

640

00:41:52,000 --> 00:41:54,000

That was like a cannon.

641

00:41:54,000 --> 00:41:56,000

Alright, let's recap this.

642

00:41:56,000 --> 00:41:58,000

Things to throw in a campfire.

643

00:41:58,000 --> 00:42:00,000

What is the case with bullets?

644

00:42:00,000 --> 00:42:02,000

Bad idea.

645

00:42:02,000 --> 00:42:04,000

Minor injuries, probably not lethal.

646

00:42:04,000 --> 00:42:06,000

Erisal cans.

647

00:42:06,000 --> 00:42:08,000

Also a bad idea.

648

00:42:08,000 --> 00:42:11,000

Also probably injuries, also not lethal.

649

00:42:11,000 --> 00:42:13,000

And beer keg.

650

00:42:13,000 --> 00:42:15,000

Bad idea to waste beer.

651

00:42:15,000 --> 00:42:18,000

Very dangerous, possibly lethal.

652

00:42:18,000 --> 00:42:20,000

I'd say a high probability of being lethal.

653

00:42:20,000 --> 00:42:21,000

Yep.

654

00:42:21,000 --> 00:42:23,000

And never could I do to waste beer.

655

00:42:23,000 --> 00:42:24,000

So do you have a chocolate?

656

00:42:24,000 --> 00:42:25,000

I thought you had it.

657

00:42:25,000 --> 00:42:27,000

Oh no.

658

00:42:33,000 --> 00:42:37,000

Can you believe we did an animal myth where the animals actually cooperated with us?

659

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

No, but you know what, that was probably the most fun I've had on a myth in a long time.

660

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

You look good in red.

661

00:42:43,000 --> 00:42:44,000

Luckily the bull didn't think so.

662

00:42:44,000 --> 00:42:47,000

And we found out that bulls are welcome in your wacky china shop.

663

00:42:47,000 --> 00:42:49,000

Bulls was a really good idea.

664

00:42:49,000 --> 00:42:56,000

And if you have any red hot ideas, log on to [discovery.com slash mythbusters](http://discovery.com/slash/mythbusters) and let us know.