

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

Be your weapon of choice.

3

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

Then you asked Carrie Grant and Tori to find out if a machine gun can fell a tree.

4

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

I want to make a withdrawal.

5

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

Next, the boys take a swipe at a baseball myth you wanted in the spotlight.

6

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

I've put makeup on Adam before.

7

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

Then Buster and Tori are unleashed to find out if you can slide to safety with your jeans.

8

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

These guys are here to make sure I don't fall to my death.

9

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

And finally, it's a cartoon classic.

10

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

That worked perfectly.

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00:01:04,000 --> 00:01:10,000

Will a road running trail of leaking gunpowder really blow up Wiley Coyote style?

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00:01:10,000 --> 00:01:12,000

In three, two, one.

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

Who are the Myth Busters?

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

Smells like science.

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

Adam Sable.

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00:01:19,000 --> 00:01:22,000

This is the kind of thing I do on the weekends.

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

And Jamie Heinemann.

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00:01:24,000 --> 00:01:27,000

Bada bing, bada boom.

19

00:01:27,000 --> 00:01:31,000

Between them more than 30 years of special effects experience.

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00:01:31,000 --> 00:01:33,000

It bleeds.

21

00:01:33,000 --> 00:01:36,000

Joining them, Tori Belleggi.

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

We do that again.

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

Grant Imahara.

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00:01:39,000 --> 00:01:40,000

Excellent damn work.

25

00:01:40,000 --> 00:01:42,000

And Carrie Byron.

26

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

Help me Obi-Wan Kenobi.

27

00:01:44,000 --> 00:01:48,000

They don't just tell the Myths, they put them to the test.

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00:01:48,000 --> 00:01:51,000

Adam and Jamie asked for them.

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00:01:51,000 --> 00:01:53,000

Had you guys delivered?

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00:01:53,000 --> 00:01:54,000

Big time.

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00:01:54,000 --> 00:01:58,000

I am so overwhelmed.

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

We have so many responses to our request for ideas from viewers.

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

Yeah, my inbox is stuffed.

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00:02:04,000 --> 00:02:07,000

I think it's safe to say that we have enough here to get started.

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

Right.

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00:02:08,000 --> 00:02:10,000

Myth Busters, viewer special number two.

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

Let's go.

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

Alright.

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00:02:12,000 --> 00:02:16,000

And for the first fan theory, one half of the team is getting dressed up.

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

And it's not Jamie.

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

Here we go again.

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

I like this.

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

I'm trying to get into the mood.

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00:02:22,000 --> 00:02:29,000

Because what we have here is not so much a myth per se as more like a historical conundrum

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00:02:29,000 --> 00:02:32,000

that a fan has asked us to answer.

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00:02:32,000 --> 00:02:35,000

This particular fan is an archeological professor.

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00:02:35,000 --> 00:02:37,000

And he's a great teacher.

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00:02:37,000 --> 00:02:39,000

And he's a great teacher.

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00:02:39,000 --> 00:02:41,000

And he's a great teacher.

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00:02:41,000 --> 00:02:43,000

And he's a great teacher.

51

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

And he's a great teacher.

52

00:02:45,000 --> 00:02:47,000

And he's a great teacher.

53

00:02:47,000 --> 00:02:49,000

And he's a great teacher.

54

00:02:49,000 --> 00:02:51,000

And he's a great teacher.

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00:02:51,000 --> 00:02:53,000

And he's a great teacher.

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

And he's a great teacher.

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00:02:55,000 --> 00:02:57,000

And he's a great teacher.

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00:02:57,000 --> 00:02:59,000

And he's a great teacher.

59

00:02:59,000 --> 00:03:01,000

And he's a great teacher.

60

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

And he's a great teacher.

61

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

And he's a great teacher.

62

00:03:05,000 --> 00:03:07,000

Exactly.

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00:03:07,000 --> 00:03:12,000

This prehistory mystery comes courtesy of archeology professor Todd Surrevelle.

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00:03:12,000 --> 00:03:17,000

It's a fact that thousands of stone arrowheads are found each and every year.

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00:03:17,000 --> 00:03:21,000

But Doc Todd wants the mythbusters to find out why.

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00:03:21,000 --> 00:03:30,000

Why did our stony-faced ancestors have a fondness for flint when an easy to make sharpened stick may have worked just as well?

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

So where do we start?

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00:03:32,000 --> 00:03:37,000

I think we start to find out how long it takes to make a flint arrowhead as opposed to a sharpened stick.

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00:03:37,000 --> 00:03:38,000

Let's have a race.

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00:03:38,000 --> 00:03:42,000

You should make some flint ones and I'll sharpen some sticks and we'll compare production times.

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00:03:42,000 --> 00:03:49,000

Yeah, and when it comes to testing time, we need to both look at their lethality as well as their accuracy because they're both important.

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

I agree.

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00:03:50,000 --> 00:03:57,000

So if you're ready, time to dust off those flint-napping skills because if I'm right, it's about 70 years since you've done it last.

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00:03:57,000 --> 00:03:59,000

Ha ha ha.

75

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

And they're off.

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

First up in this archaeology anecdote, Adam and Jamie go head to head in an arrow making time trial.

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

Okay.

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00:04:09,000 --> 00:04:11,000

Three and a half minutes.

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00:04:11,000 --> 00:04:15,000

I can't even come close to competing with that.

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00:04:15,000 --> 00:04:17,000

There's no contest.

81

00:04:17,000 --> 00:04:24,000

Jamie's been shafted, but he keeps chipping away and an hour later, finally finishes.

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00:04:24,000 --> 00:04:27,000

We've just seen that it takes much longer to make a stone arrowhead.

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00:04:27,000 --> 00:04:30,000

Now we need to find out if that makes for better arrows.

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00:04:30,000 --> 00:04:34,000

And to do that, we're going to start with a simple lethality test.

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00:04:34,000 --> 00:04:42,000

We'll make some more flint heads, we'll make some more pointed sticks, and we'll fire them into a ballistics gel dummy from a point blank range.

86

00:04:42,000 --> 00:04:48,000

To make sure that both aerotypes are fired consistently, we're going to use the automatic archer that we built for the Ninja Special.

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00:04:48,000 --> 00:04:50,000

So that's the plan.

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00:04:50,000 --> 00:04:54,000

But what does our resident Neanderthal think is going to happen?

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00:04:54,000 --> 00:05:05,000

Well said.

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

So with the predictions in place, it's time to get to the point.

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

All right, you ready?

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

Go for it.

93

00:05:11,000 --> 00:05:14,000

Here we go. In three, two, one.

94

00:05:14,000 --> 00:05:16,000

Worked like a charm.

95

00:05:16,000 --> 00:05:18,000

Totally.

96

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

The sharp stick shot straight as an arrow.

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00:05:21,000 --> 00:05:24,000

But what about the all important penetration?

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00:05:24,000 --> 00:05:25,000

Wow.

99

00:05:25,000 --> 00:05:27,000

8.5 inches.

100

00:05:27,000 --> 00:05:32,000

8.5 inches ain't bad, but will the flint be flung further?

101

00:05:32,000 --> 00:05:37,000

Okay, here goes the arrowhead in three, two, one.

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00:05:37,000 --> 00:05:39,000

Look at that.

103

00:05:39,000 --> 00:05:41,000

That is pretty clear.

104

00:05:41,000 --> 00:05:44,000

The arrowhead went a good inch farther.

105

00:05:44,000 --> 00:05:51,000

There's a glint of flint at the back of the bust and one inch more penetration confirmed by a bunch more tests.

106

00:05:51,000 --> 00:05:53,000

But Jamie spotted a problem.

107

00:05:53,000 --> 00:06:00,000

The ballistics medium by itself is good flesh analog, but animals usually have fur and hide and things like that on it.

108

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

So we're going to run the test again and see whether we get any kind of different results with this on it.

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

Despite the hide slightly hindering both the stick and flint arrows, the results are the same.

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

Actually, they were very close.

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

But is that enough to justify all the effort of making one?

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00:06:18,000 --> 00:06:23,000

This one went in this far. This one went in this far. I mean, you're dead either way.

113

00:06:23,000 --> 00:06:29,000

Right. However, you know, if you think about the animals that are being hunted, some of them are quite large and you want a bigger wound.

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00:06:29,000 --> 00:06:32,000

You want it to bleed out faster. So I think the arrowhead makes quite a difference.

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00:06:32,000 --> 00:06:35,000

I mean, if you look here, yeah, look at that.

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00:06:35,000 --> 00:06:40,000

There's the pointy stick wound. It's just a little hole and there's the arrowhead wound. It's nice and wide.

117

00:06:40,000 --> 00:06:45,000

But Jamie isn't impressed. In his mind, the size of the entry wound isn't the issue.

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00:06:45,000 --> 00:06:54,000

In terms of penetration, it was only about 5% difference and yet it took a thousand percent longer to make this one than this one.

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00:06:54,000 --> 00:07:00,000

So it may not just be about lethality. It might also be about accuracy. And that's what we have to test next.

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

Yep, they're leaving no stone unturned for this myth.

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00:07:04,000 --> 00:07:11,000

No, we haven't made this up. It's a myth straight from the fan site.

122

00:07:11,000 --> 00:07:17,000

For the next viewer myth, a fan wants to know if you can chop down a tree with a machine gun.

123

00:07:17,000 --> 00:07:21,000

Oh, just like in the movie Predator where they mow down a chunk of the jungle.

124

00:07:21,000 --> 00:07:28,000

Exactly. Oh my gosh, that's funny. You should say that because every time I go hiking in the forest and I'm just like, can I cut that tree down with a machine gun?

125

00:07:28,000 --> 00:07:31,000

Perfect. You're going to find out.

126

00:07:32,000 --> 00:07:42,000

Tree lovers, huggers and hippies beware. Torey's all fired up and ready to uproot this myth with some machine gun mayhem.

127

00:07:42,000 --> 00:07:46,000

Machine guns are a formidable weapon that have been in use for over a hundred years.

128

00:07:46,000 --> 00:07:55,000

Their deadly spray of bullets, lethal on the battlefield, is, or so the fans claim, the ideal tool for tree felling.

129

00:07:55,000 --> 00:07:58,000

So how are we going to test this myth because I don't want to go around destroying trees.

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00:07:58,000 --> 00:08:04,000

Well, why don't we get some trees that have been freshly felled for clearing purposes, will create our own artificial forest.

131

00:08:04,000 --> 00:08:07,000

That way no trees will have been killed in the busting of this myth.

132

00:08:07,000 --> 00:08:12,000

I think to test this properly, we're going to need to get a bunch of machine guns and see if any of them will cut down a tree.

133

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

You know, I think the kind of artillery that we're going to want to use to test this myth is something that's not going to be accessible in California.

134

00:08:19,000 --> 00:08:24,000

So I think we're going to have to go back to that secret location where Jamie and Adam tested shooting fish in a barrel.

135

00:08:24,000 --> 00:08:28,000

Ah, the secret location. I hope they allow us back.

136

00:08:28,000 --> 00:08:33,000

Who's with me? Come on everybody, get your guns. Let's go to the forest. Chop down the trees.

137

00:08:33,000 --> 00:08:39,000

Right there is the reason our insurance premiums are so high. So it's off for some fun in the Arizona sun.

138

00:08:39,000 --> 00:08:40,000

Are we going to have some fun?

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00:08:40,000 --> 00:08:47,000

On scene at the secret location, the team need just two ingredients. Machine guns are no problem.

140

00:08:47,000 --> 00:08:52,000

But the tree line around here has flat line. So the guys pack their own.

141

00:08:52,000 --> 00:08:57,000

We have three freshly cut pine trees. Grant's digging holes right now so that we can stick them up.

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00:08:57,000 --> 00:08:59,000

We're going to fire at them, see if we can cut them down.

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

If they do, it won't be because they've selected saplings. These pine trees are fully two feet in diameter and two tons of piece.

144

00:09:08,000 --> 00:09:13,000

Among them, our boreal expert, Mark Maul, has planted an extra challenge.

145

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

We have three freshly cut pine, but what's the tree at the end?

146

00:09:17,000 --> 00:09:20,000

The tree at the end is a native mesquite tree.

147

00:09:20,000 --> 00:09:24,000

Is that harder to cut through? Why do we have this one?

148

00:09:24,000 --> 00:09:30,000

It's about four times as dense as the pine tree and it's going to give the machine gun a run for its money.

149

00:09:30,000 --> 00:09:37,000

Yep, this hard core hardwood is as tough as timber gets, making it the ultimate challenge for the machine gun.

150

00:09:37,000 --> 00:09:42,000

But before either tree faces the firing squad, Tori takes us through the arsenal.

151

00:09:42,000 --> 00:09:48,000

Now, machine gun is very general term. So what we've done is we've chosen three different types to cover a very large range.

152

00:09:48,000 --> 00:09:52,000

For our small machine gun, we're going to go with the Thompson submachine gun.

153

00:09:52,000 --> 00:09:58,000

It shoots a .45 caliber round. This is like your classic gangster machine gun that you see in the 30s.

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00:09:58,000 --> 00:10:02,000

The next, our medium range machine gun is called the SAW. How ironic.

155

00:10:02,000 --> 00:10:08,000

It's a squad automatic weapon and it shoots a .223 fully automatic. This one is going to be fun to shoot.

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00:10:08,000 --> 00:10:12,000

Finally, for our big one, we're shooting the minigun.

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00:10:12,000 --> 00:10:17,000

And this shoots a .30 caliber round, 3,000 rounds per minute.

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00:10:17,000 --> 00:10:21,000

My money for cutting down a tree is on this bad boy right here.

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00:10:21,000 --> 00:10:26,000

Still to come, the Mythbusters get fired up from machine gun mayhem.

160

00:10:26,000 --> 00:10:28,000

I want to make a withdrawal.

161

00:10:28,000 --> 00:10:44,000

Adam and Jamie have been asked by a fan why our ancient ancestors spent so much time making flint arrowheads.

162

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

When sharpened sticks might have worked just as well.

163

00:10:48,000 --> 00:10:51,000

But the caveman jury is still out.

164

00:10:51,000 --> 00:10:57,000

Because in the so-called lethality testing, both arrow types were pretty much equal.

165

00:10:57,000 --> 00:10:59,000

So what's next?

166

00:11:09,000 --> 00:11:16,000

The whole point of this exercise is to find out if there's a point to the manufactured point on an ancient arrow.

167

00:11:16,000 --> 00:11:21,000

Now the question is, is one of these more accurate over distance?

168

00:11:21,000 --> 00:11:26,000

For that, they set up the Ninja Arrow Bot 55 feet from the target.

169

00:11:26,000 --> 00:11:29,000

But this time, the target has a tash.

170

00:11:29,000 --> 00:11:31,000

Where'd you find that picture?

171

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

I dubbed this J-Man the Barbarian.

172

00:11:40,000 --> 00:11:45,000

With J-Man in place, Adam and Jamie line up for round one.

173

00:11:45,000 --> 00:11:49,000

They fire six of the stone tipped arrows in quick succession.

174

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

Let's go take a look at those.

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

So far so good.

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00:11:55,000 --> 00:12:00,000

It still is quite deadly at 50 feet in hitting a large fleshy target like Mr. Heineman.

177

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

Now the question is, will we be able to see any difference with the non-arrow headed tipped arrows?

178

00:12:07,000 --> 00:12:09,000

Sharpened sticks, fire one.

179

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

In three, two, one.

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

This time it's a volley of six sharpened sticks.

181

00:12:16,000 --> 00:12:19,000

Let's inspect.

182

00:12:19,000 --> 00:12:26,000

And just like in the lethality tests, they refuse to be significantly outperformed by their stony counterparts.

183

00:12:26,000 --> 00:12:29,000

Well, we've got one up here that's out by itself.

184

00:12:29,000 --> 00:12:31,000

Yeah, one bogey.

185

00:12:31,000 --> 00:12:36,000

But the rest are pretty much just as clustered as the arrow headed arrows.

186

00:12:36,000 --> 00:12:39,000

At this distance, it doesn't seem to me to be much of a difference.

187

00:12:39,000 --> 00:12:40,000

No.

188

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

So in summary, are Stone Age scientists have tried lethality testing?

189

00:12:44,000 --> 00:12:46,000

Actually, they were very close.

190

00:12:46,000 --> 00:12:50,000

And only got a difference in the size of the entry wound.

191

00:12:50,000 --> 00:12:52,000

They tried testing accuracy.

192

00:12:52,000 --> 00:12:55,000

Please stop hitting me with arrows.

193

00:12:55,000 --> 00:12:56,000

That hurts.

194

00:12:56,000 --> 00:12:58,000

And got the same result.

195

00:12:58,000 --> 00:13:02,000

In terms of performance, the arrows are virtually the same.

196

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

So how do we answer this Dr. Todd's fan fable?

197

00:13:05,000 --> 00:13:06,000

Well, here are the facts.

198

00:13:06,000 --> 00:13:12,000

It took more than ten times longer to make an arrow with an arrowhead on it than it did to make a sharpened stick.

199

00:13:12,000 --> 00:13:19,000

And yet, neither of them were any better than the other one as far as accuracy or penetration.

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00:13:19,000 --> 00:13:23,000

Yes, but we did find that the arrowhead made a bigger wound.

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00:13:23,000 --> 00:13:28,000

And that means that whatever you're hunting, whether it's a vison or a mammoth or what have you,

202

00:13:28,000 --> 00:13:31,000

that bigger wound is going to mean it bleeds out faster.

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00:13:31,000 --> 00:13:34,000

And that means it's going to die quicker and you're going to eat sooner.

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00:13:34,000 --> 00:13:36,000

And in the hunting game, baby, that's everything.

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00:13:36,000 --> 00:13:41,000

And you also have to consider that the arrow shafts are made out of wood

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00:13:41,000 --> 00:13:44,000

and if it's just a sharpened stick, it's going to rot.

207

00:13:44,000 --> 00:13:48,000

And the only thing that would be around for us to look at are these arrowheads.

208

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

So we don't really know which there were more of.

209

00:13:51,000 --> 00:13:54,000

And here's one more argument in favor of the old arrowhead.

210

00:13:54,000 --> 00:13:57,000

And that is that this is technology.

211

00:13:57,000 --> 00:14:01,000

Back in the day, this puppy was caveman bullying.

212

00:14:01,000 --> 00:14:04,000

And like any technology, you've got to have the latest and the greatest.

213

00:14:04,000 --> 00:14:08,000

Oh, yeah, that's what brings on the caveman ladies.

214

00:14:13,000 --> 00:14:17,000

Chopping down trees is a backbreaking and dangerous job.

215

00:14:17,000 --> 00:14:19,000

But could there be a better way?

216

00:14:19,000 --> 00:14:24,000

MythBuster fans want to know if you could replace a saw with a machine gun.

217

00:14:24,000 --> 00:14:27,000

But enough shooting the breeze. How about them trees?

218

00:14:27,000 --> 00:14:32,000

OK, so our first weapon up today is the Thompson submachine gun.

219

00:14:32,000 --> 00:14:37,000

So grad hit man Imahara has the tree machine gun myth in his sights.

220

00:14:37,000 --> 00:14:45,000

He locks, he loads and lets loose with a drum full of 45 caliber bullets

221

00:14:45,000 --> 00:14:49,000

at 500 rounds a minute.

222

00:14:49,000 --> 00:14:54,000

But it's soon clear the handheld automatic is far from ideal.

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00:14:55,000 --> 00:14:59,000

You know what? One thing I'm seeing with the machine gun, it's just tough to keep it on target

224

00:14:59,000 --> 00:15:03,000

because you constantly want to rise up.

225

00:15:03,000 --> 00:15:05,000

It just pushes you like that.

226

00:15:05,000 --> 00:15:08,000

It's going to be tough to hit the same spot on the tree.

227

00:15:08,000 --> 00:15:12,000

Yes, the kickback is making it tough for Grant to focus his fire.

228

00:15:12,000 --> 00:15:16,000

Which means it's time to up the ante.

229

00:15:16,000 --> 00:15:19,000

I want to make a withdrawal. Do you think you can help me?

230

00:15:19,000 --> 00:15:25,000

Story looking like a gun enthusiast magazine cover is confident the squad automatic weapon

231

00:15:25,000 --> 00:15:28,000

or the saw will live up to its name.

232

00:15:28,000 --> 00:15:31,000

You know with this machine gun I think we have a better chance of cutting down a tree

233

00:15:31,000 --> 00:15:35,000

just because these bullets are going to be flying at a lot faster velocity

234

00:15:35,000 --> 00:15:38,000

so they should be cutting through the tree.

235

00:15:38,000 --> 00:15:43,000

So Tori assumes the position and lets rip.

236

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

After Grant's experience with the Tommy gun, Tori's using a bipod

237

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

for increased stability and accuracy.

238

00:15:53,000 --> 00:15:55,000

It was great, you had a straight line.

239

00:15:55,000 --> 00:16:00,000

Tori works away, concentrating his fire in a line across the base of the trunk

240

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

but despite unloading over three ammo belts into the wood, there's no sign of timber.

241

00:16:07,000 --> 00:16:11,000

Got them all right. I don't think it's going down though.

242

00:16:11,000 --> 00:16:14,000

And with one last blast Tori gives up.

243

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

But unlike the Tommy gun, the saw bullets did go all the way through the trunk

244

00:16:19,000 --> 00:16:24,000

but the relatively small caliber 223 meant the damage was limited

245

00:16:24,000 --> 00:16:26,000

and the tree stayed standing.

246

00:16:26,000 --> 00:16:32,000

But the myth is still alive because Carrie Mad Max Byron is up next.

247

00:16:32,000 --> 00:16:39,000

After the break Adam and Jamie launch a spear campaign and Carrie brings out the big guns.

248

00:16:50,000 --> 00:16:59,000

Not so long ago the team went to the ball game to hit some baseball myths right out of the park

249

00:16:59,000 --> 00:17:03,000

but the fans say there was one glaring omission.

250

00:17:03,000 --> 00:17:05,000

Can you guess what's next?

251

00:17:05,000 --> 00:17:07,000

Let me see.

252

00:17:07,000 --> 00:17:08,000

Eye black?

253

00:17:08,000 --> 00:17:10,000

Good call.

254

00:17:10,000 --> 00:17:13,000

Well eye black is supposed to do what? Make you see better?

255

00:17:13,000 --> 00:17:14,000

Yeah by cutting the glare.

256

00:17:14,000 --> 00:17:20,000

Either that or it's supposed to strike the fear into your opponents because it looks like war paint.

257

00:17:20,000 --> 00:17:22,000

Well how are we going to test that?

258

00:17:22,000 --> 00:17:25,000

Well I think we should bring Jess into it and I think she should put some eye black on us

259

00:17:25,000 --> 00:17:29,000

and it's pretty simple. We go out into the sunlight and we take an eye test

260

00:17:29,000 --> 00:17:32,000

both with and without eye black on our face.

261

00:17:32,000 --> 00:17:36,000

Except we can't know which one we've got on.

262

00:17:36,000 --> 00:17:40,000

So for one of us she'll do eye black and for the other she'll do regular makeup.

263

00:17:40,000 --> 00:17:43,000

We won't know which one so the test will be blind.

264

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

So to speak.

265

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

Exactly.

266

00:17:47,000 --> 00:17:52,000

So outside Jess positions the eye chart so the guys will face directly into the sun.

267

00:17:52,000 --> 00:17:53,000

Close your eyes.

268

00:17:53,000 --> 00:17:58,000

Then she launches a smear campaign putting eye black on Adam.

269

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

I've put makeup on Adam before.

270

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

What was that?

271

00:18:01,000 --> 00:18:03,000

Oh you know.

272

00:18:03,000 --> 00:18:06,000

And ordinary makeup on Jamie.

273

00:18:06,000 --> 00:18:10,000

Remember they don't know which substance they've got on their faces.

274

00:18:10,000 --> 00:18:12,000

Oh it's bright outside.

275

00:18:12,000 --> 00:18:15,000

Then they take turns sitting Jess's eye exam.

276

00:18:15,000 --> 00:18:24,000

H-V-Z-D-S-N-C-V-K-D-O-N-V-C-S-V-D-V-O-H-C-S-R.

277

00:18:24,000 --> 00:18:28,000

I think that's the last line, the third to the last is the smallest one I can read.

278

00:18:28,000 --> 00:18:33,000

At the end of round one Adam and Jamie each made just a single mistake.

279

00:18:33,000 --> 00:18:36,000

Could you tell what you had under your eyes?

280

00:18:36,000 --> 00:18:39,000

Honestly I could not tell whether I had a light or dark color under my eyes.

281

00:18:39,000 --> 00:18:44,000

They swapped stripes and sit the test a second time.

282

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

C-Z-S-H-N-E.

283

00:18:47,000 --> 00:18:50,000

Is Jamie finding it easier with the eye black on?

284

00:18:50,000 --> 00:18:52,000

N-C-V-K-D-C-S.

285

00:18:52,000 --> 00:18:54,000

Is Adam struggling with the glare?

286

00:18:54,000 --> 00:18:58,000

Now that his cheeks no longer bear the sooty swipe.

287

00:18:58,000 --> 00:19:01,000

H-V-O-N-V-O-H-C-S-V-D-V-O-H-C-S-R.

288

00:19:01,000 --> 00:19:03,000

How did you do on that last one?

289

00:19:03,000 --> 00:19:06,000

Well actually the results are the same.

290

00:19:06,000 --> 00:19:08,000

One wrong letter each.

291

00:19:08,000 --> 00:19:11,000

However, I really feel like I can see it better.

292

00:19:11,000 --> 00:19:13,000

Please tell me I'm wearing the eye black.

293

00:19:13,000 --> 00:19:15,000

No.

294

00:19:15,000 --> 00:19:18,000

Negative results.

295

00:19:18,000 --> 00:19:20,000

Is what's on me now a lighter color?

296

00:19:20,000 --> 00:19:26,000

No actually it's black and I think it really compliments the beret.

297

00:19:26,000 --> 00:19:30,000

So both feel the test was harder with the eye black on.

298

00:19:30,000 --> 00:19:35,000

But because the eye test is so subjective they decide to remove the human element.

299

00:19:35,000 --> 00:19:38,000

They're going to use a fake face with a fake tan.

300

00:19:38,000 --> 00:19:40,000

Not entirely awful.

301

00:19:40,000 --> 00:19:43,000

And insert a light meter into the eye socket.

302

00:19:43,000 --> 00:19:47,000

I've got a professional grade eye black from the Sporting & Store.

303

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

Gonna take a reading with the light on.

304

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

Without the eye black and with the eye black.

305

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

Let's see if there's a difference.

306

00:19:53,000 --> 00:19:57,000

With a single light source beaming down on our one-eyed outfielder.

307

00:19:57,000 --> 00:20:02,000

It's now settled out at around 3,160 or so.

308

00:20:02,000 --> 00:20:04,000

The guys note down the reading.

309

00:20:04,000 --> 00:20:07,000

Measured in lux, with and without eye black.

310

00:20:07,000 --> 00:20:09,000

It's about the same.

311

00:20:09,000 --> 00:20:11,000

The difference in a couple of lux.

312

00:20:11,000 --> 00:20:13,000

You never notice it with your naked eye.

313

00:20:13,000 --> 00:20:19,000

So the eye black didn't affect the amount of light bouncing off the cheek and into the eyeball.

314

00:20:19,000 --> 00:20:22,000

Don't these guys normally wear baseball caps?

315

00:20:22,000 --> 00:20:23,000

Yeah.

316

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

Let's put one on and see what happens.

317

00:20:25,000 --> 00:20:28,000

Maybe it's about the reflected light not the direct light.

318

00:20:28,000 --> 00:20:33,000

On goes the cap and without eye black the light meter hovers around 103 lux.

319

00:20:33,000 --> 00:20:37,000

Then being careful not to move the cap, Adam adds the pigment.

320

00:20:37,000 --> 00:20:39,000

It's pretty well stabilized.

321

00:20:39,000 --> 00:20:43,000

Well below 100 like you know 90 thereabouts.

322

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

That's significant.

323

00:20:45,000 --> 00:20:46,000

Yeah.

324

00:20:46,000 --> 00:20:50,000

With the cap on the eye black definitely reduced the amount of reflected light.

325

00:20:50,000 --> 00:20:52,000

And let's face it.

326

00:20:52,000 --> 00:20:55,000

When did he allow to see a baseballer without his cap?

327

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

What do you reckon?

328

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

Well you know it's funny.

329

00:20:59,000 --> 00:21:04,000

Eye black tests that we were first doing really seem to point towards the opposite of conventional wisdom.

330

00:21:04,000 --> 00:21:09,000

It seemed like we were about to prove that the eye black makes it worse for you in bright sunlight rather than better.

331

00:21:09,000 --> 00:21:11,000

Indeed.

332

00:21:11,000 --> 00:21:18,000

But once we threw in the addition of the baseball cap, the change in the total amount of light coming in actually turned it in the other direction.

333

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

It looks like eye black actually does help it.

334

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

So it's plausible.

335

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

I would agree.

336

00:21:23,000 --> 00:21:25,000

This one is...ow.

337

00:21:25,000 --> 00:21:26,000

Plausible.

338

00:21:55,000 --> 00:22:00,000

What a no is it possible to fell a tree with a machine gun?

339

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

So far ballistics, Balechi and hitman Imahara have left their wood standing.

340

00:22:06,000 --> 00:22:10,000

Well, I hate to tell you this but the tree is still standing.

341

00:22:10,000 --> 00:22:17,000

But it ain't over till the fat lady sings and in this case the fat lady is the Dylan minigun.

342

00:22:17,000 --> 00:22:19,000

Now it's time for the big gun.

343

00:22:19,000 --> 00:22:24,000

This is the M134D Gatling gun otherwise known as the Dylan minigun.

344

00:22:24,000 --> 00:22:28,000

It shoots 30 caliber rounds at 3000 rounds per minute.

345

00:22:28,000 --> 00:22:30,000

3000 rounds a minute.

346

00:22:32,000 --> 00:22:36,000

It breaks down to an incredible 50 per second.

347

00:22:37,000 --> 00:22:40,000

And whatever it sounds like...

348

00:22:43,000 --> 00:22:45,000

It's gonna be a whole lot of fun.

349

00:22:45,000 --> 00:22:50,000

Grant, curious to know how long it'll take to take down the tree as a stopwatch ready.

350

00:22:50,000 --> 00:22:52,000

Okay, we're going hot?

351

00:22:52,000 --> 00:22:53,000

Yeah.

352

00:22:53,000 --> 00:22:56,000

The tree primes the gun and lines up her target.

353

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

In three, two, one.

354

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

Now that's a machine gun.

355

00:23:04,000 --> 00:23:09,000

In a torrential downpour the spent cartridges pile up around Carrie's feet.

356

00:23:09,000 --> 00:23:13,000

And in less than a minute the tree catches fire and...

357

00:23:18,000 --> 00:23:20,000

Nice job, you cut it down.

358

00:23:20,000 --> 00:23:21,000

What was the time?

359

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

45 seconds.

360

00:23:24,000 --> 00:23:25,000

Oh my gosh.

361

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

He just riddled this thing.

362

00:23:27,000 --> 00:23:29,000

Look at it, it's the splinter maker.

363

00:23:29,000 --> 00:23:30,000

Oh my goodness.

364

00:23:30,000 --> 00:23:33,000

Yeah, it's just like there's nothing left structurally.

365

00:23:33,000 --> 00:23:35,000

Smells like campfire.

366

00:23:35,000 --> 00:23:36,000

Smells good.

367

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

Smells like destruction.

368

00:23:39,000 --> 00:23:44,000

Yep, Carrie is sawing her victim in half, which leaves just one conclusion.

369

00:23:44,000 --> 00:23:46,000

Well, I think there's one thing we can definitely say.

370

00:23:46,000 --> 00:23:52,000

Cutting down a tree with a machine gun as long as it's in the tree.

371

00:23:52,000 --> 00:23:57,000

But before the team wander off into the sunset, there's one last challenge.

372

00:23:57,000 --> 00:23:58,000

The Mesquite.

373

00:23:58,000 --> 00:24:02,000

Remember, this tree has four times the density of the pine,

374

00:24:02,000 --> 00:24:04,000

making it a much tougher target.

375

00:24:04,000 --> 00:24:06,000

But is it tough enough?

376

00:24:06,000 --> 00:24:07,000

We're going hot.

377

00:24:07,000 --> 00:24:09,000

Three, two, one.

378

00:24:09,000 --> 00:24:10,000

Fantastic.

379

00:24:10,000 --> 00:24:11,000

It's smoking.

380

00:24:11,000 --> 00:24:12,000

Nice shooting.

381

00:24:12,000 --> 00:24:14,000

Oh my gosh.

382

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

The minigun is the ultimate tree killer.

383

00:24:18,000 --> 00:24:19,000

What is the official time?

384

00:24:19,000 --> 00:24:21,000

One minute, eight seconds.

385

00:24:21,000 --> 00:24:23,000

A little bit longer than the pine.

386

00:24:23,000 --> 00:24:27,000

So, as far as the myth is concerned, even if you have a Mesquite tree,

387

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

you can't get it out of the tree.

388

00:24:29,000 --> 00:24:31,000

You can't get it out of the tree.

389

00:24:31,000 --> 00:24:33,000

You can't get it out of the tree.

390

00:24:33,000 --> 00:24:35,000

You can't get it out of the tree.

391

00:24:35,000 --> 00:24:39,000

So, as far as the myth is concerned, even if you have a Mesquite tree,

392

00:24:39,000 --> 00:24:42,000

and you got a Gatling gun, confirmed.

393

00:24:42,000 --> 00:24:44,000

Yeah, absolutely confirmed.

394

00:24:44,000 --> 00:24:45,000

It's confirmed.

395

00:24:49,000 --> 00:24:52,000

Coming up, Tori flies by the seat of his pants.

396

00:24:52,000 --> 00:25:08,000

Not so long ago, the team tested out some hard-wearing myths surrounding genes.

397

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

But there's another fabric fabrication the fans want unzipped.

398

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

Okay, here's the myth.

399

00:25:19,000 --> 00:25:22,000

He flies on a ski lift. The chair stops. He panics.

400

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

So, what does he do? He pulls off his genes.

401

00:25:24,000 --> 00:25:28,000

He flips it over the top of the wire, and he sails the safety as if he's on a zipline.

402

00:25:28,000 --> 00:25:31,000

Yeah, we definitely have to try that one.

403

00:25:31,000 --> 00:25:36,000

A zipline is a cable suspended at an angle with a free-moving pulley.

404

00:25:36,000 --> 00:25:40,000

Then all you need to glide through the air with the greatest of ease

405

00:25:40,000 --> 00:25:43,000

is a tight grip and good old gravity.

406

00:25:43,000 --> 00:25:48,000

But on a stalled ski lift, can you use this notion of motion to escape?

407

00:25:48,000 --> 00:25:53,000

Can your denim duds really be used to slide safely back to ground?

408

00:25:53,000 --> 00:25:54,000

Let's go try that.

409

00:25:54,000 --> 00:25:59,000

Well, hang on. Before we go hitting ski slopes, let's do a test to see the critical angle

410

00:25:59,000 --> 00:26:01,000

at which genes will slide down the cable.

411

00:26:01,000 --> 00:26:06,000

It's a good idea, and we should also first try it out in a very controlled, safe environment.

412

00:26:06,000 --> 00:26:12,000

Tori, a controlled, safe environment, is like saying, don't push that button.

413

00:26:12,000 --> 00:26:15,000

I'm okay.

414

00:26:15,000 --> 00:26:21,000

Here at Trapeze Arts, they've got everything we need, including 75 feet of steel cable

415

00:26:21,000 --> 00:26:24,000

similar to the kind used on ski lifts.

416

00:26:24,000 --> 00:26:29,000

So we're starting out at a fairly shallow angle of probably 5 or 10 degrees.

417

00:26:29,000 --> 00:26:33,000

Next is a question we're all dying to know the answer to.

418

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

What's Tori's technique?

419

00:26:34,000 --> 00:26:41,000

I'm going to wrap one pant leg around my wrist, toss the other one over the cable,

420

00:26:41,000 --> 00:26:46,000

and then wrap this one around my other wrist, and then I'm going to jump out

421

00:26:46,000 --> 00:26:48,000

and slide down the cable.

422

00:26:48,000 --> 00:26:50,000

Piece of cake.

423

00:26:50,000 --> 00:26:51,000

All right, here we go.

424

00:26:51,000 --> 00:26:54,000

Come on, dude. Like your life depends on it.

425

00:26:54,000 --> 00:26:56,000

Three, two, one.

426

00:26:56,000 --> 00:26:58,000

Ah!

427

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

Whoa.

428

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

I hear the pants ripping.

429

00:27:04,000 --> 00:27:06,000

Ah!

430

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

Nice landing. Yeah!

431

00:27:09,000 --> 00:27:15,000

So in a real-life jeans escape, on a ski lift cable at an angle of 10 degrees,

432

00:27:15,000 --> 00:27:18,000

you simply wouldn't slide.

433

00:27:18,000 --> 00:27:24,000

I kind of tried to move a little bit while I was on the cable, and I could hear stitches snappy.

434

00:27:24,000 --> 00:27:30,000

A sound you don't want to hear when there's only that stitch between you and a plummet to death.

435

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

So what the guys need is more angle on Tori's dangle.

436

00:27:34,000 --> 00:27:40,000

Now we've increased our angle to 20 degrees, double what the first test had.

437

00:27:40,000 --> 00:27:47,000

So with the cable at the maximum incline possible on this rig, will Tori slide or stick?

438

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

All right, 20 degree angle, new pair of jeans.

439

00:27:52,000 --> 00:27:55,000

In three, two, one.

440

00:27:55,000 --> 00:28:00,000

Oh, oh, oh, yes!

441

00:28:01,000 --> 00:28:06,000

I guess if my life depended on it, it might take me some time.

442

00:28:06,000 --> 00:28:07,000

Pretty good crawl.

443

00:28:07,000 --> 00:28:10,000

This time round Tori does get further down.

444

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

I wouldn't fall and die.

445

00:28:12,000 --> 00:28:18,000

But remember, this myth is about an effortless glide to freedom, not a jerky bunny hop.

446

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

And check out the big brain on Grant, because he's got an idea.

447

00:28:22,000 --> 00:28:24,000

One thing that we're missing is this lubricant.

448

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

So I was looking it up online, turns out they use a light oil.

449

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

Now we don't have exactly the same thing, but we have something that is the same consistency.

450

00:28:33,000 --> 00:28:35,000

Castor oil.

451

00:28:35,000 --> 00:28:37,000

It's Jamie's shop model in action.

452

00:28:37,000 --> 00:28:39,000

If in doubt, Lou Brickhead.

453

00:28:39,000 --> 00:28:45,000

But will it be the key to the swift escape described in this viewer inspired myth?

454

00:28:45,000 --> 00:28:46,000

Slide!

455

00:28:49,000 --> 00:28:54,000

Tori made it down, but how did the jeans cope with the friction from the cable?

456

00:28:54,000 --> 00:28:56,000

Totally ripped right up the crotch.

457

00:28:56,000 --> 00:28:59,000

Yeah, but maybe the waistband would save you.

458

00:28:59,000 --> 00:29:00,000

Maybe.

459

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

There's only one way to find out for sure, full scale, on our real ski lift.

460

00:29:05,000 --> 00:29:09,000

Here's hoping Tori's denim duds are double stitched.

461

00:29:10,000 --> 00:29:14,000

Up next, the boys are on the trail of a black powder boom.

462

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

While Tori and Grant try to pull off a pants down maneuver.

463

00:29:27,000 --> 00:29:31,000

And now for something completely different.

464

00:29:31,000 --> 00:29:33,000

Starting with a flashback.

465

00:29:33,000 --> 00:29:36,000

In the tale of the trailblazers.

466

00:29:36,000 --> 00:29:38,000

It's time to burn for science.

467

00:29:38,000 --> 00:29:41,000

Adam and Jamie release their inner pyro.

468

00:29:41,000 --> 00:29:44,000

Oh, camera. Let's put it out.

469

00:29:44,000 --> 00:29:45,000

No one's watching.

470

00:29:45,000 --> 00:29:50,000

Then they wrestled with the idea that you can outrun a trail of gunpowder.

471

00:29:50,000 --> 00:29:53,000

Oh, it's still gonna be a little bit of a mess.

472

00:29:53,000 --> 00:29:55,000

They sure had a blast.

473

00:29:55,000 --> 00:29:59,000

But according to fans, there's one thing they forgot to tell.

474

00:29:59,000 --> 00:30:02,000

What if we forget in trailblazers? That was a stunning episode.

475

00:30:02,000 --> 00:30:05,000

Well, it's a cartoon thing. Let me set the scenario.

476

00:30:05,000 --> 00:30:08,000

You've got a keg of gunpowder. It's got a hole in it.

477

00:30:08,000 --> 00:30:11,000

It's leaking. You're walking along leaving a trail of gunpowder.

478

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

Somebody sneaks up behind, lights the trail.

479

00:30:13,000 --> 00:30:18,000

It catches up with you, blows up the keg, and you get all toasty like they do in the cartoons.

480

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

I love the way they do it.

481

00:30:20,000 --> 00:30:23,000

It's a cartoon caper the guys just can't resist.

482

00:30:23,000 --> 00:30:29,000

Our animated hero is carrying a powder keg, but unbeknownst to him, it's got a leak.

483

00:30:29,000 --> 00:30:32,000

The sneaky villain takes advantage.

484

00:30:32,000 --> 00:30:39,000

The sparks travel up the falling powder and our hero is barbecued cartoon style.

485

00:30:39,000 --> 00:30:42,000

To test this fun fable, they'll need a robot.

486

00:30:42,000 --> 00:30:46,000

An armored remote control robot, and a gunpowder.

487

00:30:46,000 --> 00:30:52,000

They'll need a robot. An armored remote control robot with a leaking powder keg attachment.

488

00:30:52,000 --> 00:30:55,000

This is made from an electric wheelchair base.

489

00:30:55,000 --> 00:30:58,000

It's radio controlled, computerized, and do anything that I want.

490

00:30:58,000 --> 00:31:03,000

But so that I don't destroy it, I'm going to build an armor cover for it.

491

00:31:03,000 --> 00:31:09,000

Just out of steel. And hopefully Sparky won't go away when the gunpowder does.

492

00:31:09,000 --> 00:31:15,000

There we have it. It's going to be like, run Sparky run.

493

00:31:15,000 --> 00:31:21,000

With Sparky dressed to kill, it's time to get this myth up and running.

494

00:31:21,000 --> 00:31:24,000

Starting of course with some bench tests.

495

00:31:24,000 --> 00:31:32,000

Well, the main question I want to answer here is, can the black powder leaking out of that barrel leave a line contiguous enough to ignite?

496

00:31:32,000 --> 00:31:38,000

That's the question. And after laying down a moving trail, it's time to fire up an answer.

497

00:31:38,000 --> 00:31:43,000

Firing in three, two, one.

498

00:31:46,000 --> 00:31:50,000

There you go. That's fine. I think that's good.

499

00:31:54,000 --> 00:32:00,000

Yes, the trail was continuous enough to let the flame burn along its length. So what's next?

500

00:32:02,000 --> 00:32:07,000

Now I feel like I know it would travel along the line, but I want to know if it would climb that line up into the keg.

501

00:32:07,000 --> 00:32:14,000

So I'd like to walk down halfway down the line, same as I did before, but park it, get out, light

it, and see if it blows up the cone.

502

00:32:16,000 --> 00:32:21,000

That worked perfectly.

503

00:32:21,000 --> 00:32:26,000

Mythbusters and perfection. Not words you often hear in association.

504

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

That was very satisfying.

505

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

That was perfect. It was like boom.

506

00:32:33,000 --> 00:32:35,000

A little pop at the end there.

507

00:32:35,000 --> 00:32:37,000

Tells me what I need to know.

508

00:32:45,000 --> 00:32:54,000

This is a zipline down to terra firma. Practicing this alpine escape on a circus high wire, Tori glided to the ground.

509

00:32:56,000 --> 00:33:03,000

Now to test this on a real mountain, but before leaving, a mysterious package has arrived at M7.

510

00:33:03,000 --> 00:33:05,000

I have a surprise for you.

511

00:33:05,000 --> 00:33:06,000

A dead body!

512

00:33:06,000 --> 00:33:09,000

This is not a coffin. This is the new buster.

513

00:33:09,000 --> 00:33:13,000

No way. Thank God. I'm so sick of putting him back together.

514

00:33:16,000 --> 00:33:17,000

That's cute.

515

00:33:17,000 --> 00:33:21,000

How cute is that? They gave him coveralls with Buster's name on it.

516

00:33:21,000 --> 00:33:22,000

Buster now.

517

00:33:22,000 --> 00:33:24,000

That's adorable.

518

00:33:24,000 --> 00:33:29,000

Let's take a moment to salute our former buster's dedication,

519

00:33:29,000 --> 00:33:30,000

Come on, buster!

520

00:33:30,000 --> 00:33:35,000

tireless work ethic, and positive attitude.

521

00:33:35,000 --> 00:33:37,000

Dang! He hit hard.

522

00:33:37,000 --> 00:33:41,000

Thanks a bunch, buddy. It's time for a well-earned retirement.

523

00:33:41,000 --> 00:33:43,000

That was cool.

524

00:33:44,000 --> 00:33:52,000

Being a former crash test dummy, Buster 2.0 is a well-qualified replacement, so he's being put straight to work.

525

00:33:52,000 --> 00:33:57,000

Before any of us try it, we're going to let Buster try it first so we can see how dangerous it is.

526

00:33:57,000 --> 00:34:05,000

Tori carefully replaces Buster's hands with metal clamps, tests his jeans grappling grip,

527

00:34:05,000 --> 00:34:07,000

Looks like it's going to hold on to me,

528

00:34:07,000 --> 00:34:09,000

and loads him into the van.

529

00:34:11,000 --> 00:34:16,000

Leaving Carrie at home to rest her sore leg, the guys head for the hills.

530

00:34:16,000 --> 00:34:22,000

The Sierra at Tahoe Resort is their destination, and despite knowing Buster will be going first,

531

00:34:22,000 --> 00:34:24,000

Tori's a little nervous.

532

00:34:24,000 --> 00:34:26,000

That's a lot steeper than I thought it was going to be.

533

00:34:26,000 --> 00:34:29,000

Yep, and we're doing it all the way from the top.

534

00:34:30,000 --> 00:34:33,000

When we were at Trapiz Arts, we found that an angle of 20 degrees,

535

00:34:33,000 --> 00:34:38,000

which is just enough to start sliding down the line with a pair of jeans when the line was greased.

536

00:34:40,000 --> 00:34:44,000

Here at Sierra at Tahoe, they have the same consistency grease.

537

00:34:44,000 --> 00:34:50,000

Just to hedge our bets, we've found a section of line close to the top that's at 25 degrees.

538

00:34:51,000 --> 00:34:57,000

At the top, Chief Rigor Lawrence and his crew are putting together a safety system of ropes and pulleys.

539

00:34:57,000 --> 00:35:00,000

These guys are here to make sure I don't fall to my death.

540

00:35:01,000 --> 00:35:08,000

Tori and Grant strap on their harnesses, secure themselves to the chair, hoist in Buster, and head downhill.

541

00:35:10,000 --> 00:35:12,000

Are we nuts or what?

542

00:35:12,000 --> 00:35:14,000

Oh my God.

543

00:35:15,000 --> 00:35:17,000

So what's the denim divination?

544

00:35:18,000 --> 00:35:24,000

The best case scenario for Buster is that he and his jeans will take a very quick ride down the line,

545

00:35:24,000 --> 00:35:26,000

slamming to the rollers at the end.

546

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

And the worst case scenario is that he will rip through his jeans and probably plummet to his doom.

547

00:35:38,000 --> 00:35:44,000

When they reach the 25 degree mark, they sling over the jeans and secure them to Buster's clamp hands.

548

00:35:45,000 --> 00:35:51,000

Buster is ready to go. All we need to do is unhook him from the chair and release this ratchet strap.

549

00:35:52,000 --> 00:35:56,000

It's a long journey to the bottom, Buster. Don't forget to ride.

550

00:35:56,000 --> 00:36:00,000

In three, two, one, go.

551

00:36:06,000 --> 00:36:09,000

Nothing really happened. We pushed him off and he just stuck there.

552

00:36:09,000 --> 00:36:16,000

Even though Buster is only about 10 pounds lighter than Tori, his weight couldn't overcome the friction of the jeans on the cable.

553

00:36:16,000 --> 00:36:19,000

And he simply stuck on the line.

554

00:36:21,000 --> 00:36:23,000

What do we do now?

555

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

How about help him down?

556

00:36:33,000 --> 00:36:41,000

Although Buster never lost his grip, he's a bit of a dummy and couldn't follow Tori's lead in creating his own momentum.

557

00:36:42,000 --> 00:36:45,000

Good job, buddy. Way to take one for the team.

558

00:36:45,000 --> 00:36:48,000

Question is, can Tori do any better?

559

00:36:48,000 --> 00:36:50,000

I don't know if I should have seen that.

560

00:36:50,000 --> 00:36:55,000

Stay tuned because coming right up, it's the explosive moment of truth for Sparky.

561

00:37:07,000 --> 00:37:13,000

The fans have a theory that if you pull off your jeans, you can pull off a daring denim escape.

562

00:37:13,000 --> 00:37:21,000

But Tori and Grant found that if you try to fly down a ski lift cable by the seat of your pants, the friction can fix you in place.

563

00:37:21,000 --> 00:37:23,000

Go.

564

00:37:25,000 --> 00:37:28,000

But they may have a way to fight it.

565

00:37:28,000 --> 00:37:33,000

Cue Tori for an attempted slide down the ski lift in hot pants.

566

00:37:33,000 --> 00:37:35,000

Well, they will be after all the friction.

567

00:37:35,000 --> 00:37:38,000

So let's flip the jeans over and try to fly.

568

00:37:38,000 --> 00:37:41,000

In three, two, one.

569

00:37:44,000 --> 00:37:46,000

Get that weight on those jeans.

570

00:37:48,000 --> 00:37:50,000

Nice. Nice.

571

00:37:51,000 --> 00:37:53,000

Very nice, but it's not easy.

572

00:37:53,000 --> 00:38:03,000

My hands are cramping up because I was holding onto the jeans so tight, but then I had to lift my weight off the jeans so that I could shimmy down the cable and then my arms started getting tired.

573

00:38:03,000 --> 00:38:08,000

Our little dungarees clad flying squirrel is plum tuckered out.

574

00:38:08,000 --> 00:38:10,000

And not only that, stuck.

575

00:38:10,000 --> 00:38:12,000

I can't, I'm stuck. See that?

576

00:38:12,000 --> 00:38:13,000

I see it.

577

00:38:13,000 --> 00:38:14,000

I'm letting go.

578

00:38:16,000 --> 00:38:21,000

The jeans themselves actually starting to roll up as they grab onto the cable.

579

00:38:21,000 --> 00:38:25,000

There's way too much friction in the system to be able to slide.

580

00:38:27,000 --> 00:38:28,000

So guys, how'd it go?

581

00:38:28,000 --> 00:38:31,000

It was a little disappointing and it was nothing like we imagined.

582

00:38:31,000 --> 00:38:33,000

You know you picture going out on a zipline.

583

00:38:33,000 --> 00:38:35,000

It took a lot more work than that.

584

00:38:35,000 --> 00:38:37,000

The jeans kept sticking to the cable.

585

00:38:37,000 --> 00:38:41,000

Using your clothing to escape a ski lift, bad idea.

586

00:38:41,000 --> 00:38:45,000

Either the clothing is going to rip or your arms are going to give out.

587

00:38:45,000 --> 00:38:47,000

So zipline jeans escaped. Busted.

588

00:38:47,000 --> 00:38:48,000

Busted.

589

00:38:48,000 --> 00:38:49,000

Busted.

590

00:38:58,000 --> 00:39:02,000

Jamie and Adam are tackling a tall tale of cartoon physics.

591

00:39:02,000 --> 00:39:09,000

Can a leaking trail of burning gunpowder catch up and blow up the moving powder keg?

592

00:39:09,000 --> 00:39:14,000

To find out, our animated duo are back at the Alameda Bomb Disposal range.

593

00:39:14,000 --> 00:39:16,000

We've come back to the bomb range.

594

00:39:16,000 --> 00:39:18,000

We're going to do the same setup as we did before.

595

00:39:18,000 --> 00:39:22,000

Plywood laid down for the gunpowder to go on, except this time the difference is,

596

00:39:22,000 --> 00:39:27,000

Sarky will be going full tilt with gunpowder leaking from his barrel.

597

00:39:27,000 --> 00:39:31,000

The question we wanted to answer is, will the lit trail catch up with him?

598

00:39:32,000 --> 00:39:35,000

This is tough because this is not a myth where we're working from an actual case

599

00:39:35,000 --> 00:39:38,000

that we've read about or a story someone's told us.

600

00:39:38,000 --> 00:39:40,000

This is like cartoon physics.

601

00:39:40,000 --> 00:39:46,000

So of course we're going to run into trouble between cartoon physics view of the world and the real world.

602

00:39:46,000 --> 00:39:49,000

And in the real world, we've got an outdoor thing.

603

00:39:49,000 --> 00:39:52,000

It's the only place we can do this experiment with black powder.

604

00:39:52,000 --> 00:39:55,000

And of course, outdoors there's going to be a breeze.

605

00:39:55,000 --> 00:39:58,000

With a tumbling trail of powder vulnerable to the wind,

606

00:39:58,000 --> 00:40:02,000

the guys carry out the final prep with one eye on the weather.

607

00:40:02,000 --> 00:40:05,000

Sparky's barrel is loaded with two pounds of gunpowder,

608

00:40:05,000 --> 00:40:10,000

and Adam rigs a remote ignition system to spark the powder trail to life.

609

00:40:10,000 --> 00:40:13,000

There you go.

610

00:40:13,000 --> 00:40:14,000

This is it.

611

00:40:14,000 --> 00:40:18,000

Jamie directs Sparky along the track, trailing his deadly trail.

612

00:40:18,000 --> 00:40:20,000

Then Adam lights her up.

613

00:40:20,000 --> 00:40:22,000

In three, two, one.

614

00:40:22,000 --> 00:40:28,000

But there's another problem.

615

00:40:28,000 --> 00:40:31,000

The sparks caught up with Sparky,

616

00:40:31,000 --> 00:40:35,000

but didn't travel up the falling powder and into the keg.

617

00:40:35,000 --> 00:40:41,000

Adam and Jamie's solution is to drill a larger hole for a more substantial leak.

618

00:40:41,000 --> 00:40:42,000

I'm on.

619

00:40:42,000 --> 00:40:47,000

But once again, our big bang junkies don't get no satisfaction.

620

00:40:47,000 --> 00:40:48,000

It didn't go.

621

00:40:48,000 --> 00:40:50,000

That sucker just wants to clog.

622

00:40:50,000 --> 00:40:51,000

Yep.

623

00:40:51,000 --> 00:40:53,000

Despite several more attempts,

624

00:40:53,000 --> 00:40:59,000

either the powder doesn't want to fall freely or stay lit all the way to the intended target.

625

00:40:59,000 --> 00:41:01,000

Wait.

626

00:41:01,000 --> 00:41:06,000

And although Adam's annoyed, he's adamant they can get this right.

627

00:41:06,000 --> 00:41:09,000

I don't think this is disproving the myth or saying that it's not possible.

628

00:41:09,000 --> 00:41:14,000

I don't think we're hitting our mark and I'm not ready to call it until I feel like we have.

629

00:41:14,000 --> 00:41:21,000

What Adam and Jamie need is an ingenious last minute plan to keep the powder flowing freely.

630

00:41:21,000 --> 00:41:24,000

The only thing I can think to do is put a shaker on it.

631

00:41:24,000 --> 00:41:27,000

And the only shaker I have is right here.

632

00:41:27,000 --> 00:41:29,000

That's really a shame to make this go away.

633

00:41:29,000 --> 00:41:31,000

It's a nice drill.

634

00:41:31,000 --> 00:41:34,000

It's the last chance for this viewer myth.

635

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

Now or never, this is No Drill.

636

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

Here we go.

637

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

Yeah.

638

00:41:46,000 --> 00:41:49,000

That worked.

639

00:41:49,000 --> 00:41:56,000

Well, Sparky looks like he's, let me see if he's still alive.

640

00:41:56,000 --> 00:41:57,000

Success.

641

00:41:57,000 --> 00:41:59,000

The gunpowder trail worked.

642

00:41:59,000 --> 00:42:03,000

It caught up, it traveled up the link and it exploded the barrel.

643

00:42:03,000 --> 00:42:08,000

And what's more, Sparky and the drill have survived intact.

644

00:42:08,000 --> 00:42:10,000

Yay!

645

00:42:10,000 --> 00:42:13,000

Sparky survived, but this isn't about Sparky.

646

00:42:13,000 --> 00:42:16,000

This is about what if you were carrying that barrel?

647

00:42:16,000 --> 00:42:19,000

And I'm here to tell you, you'd be dead.

648

00:42:19,000 --> 00:42:22,000

Even though these explosions were incredibly small,

649

00:42:22,000 --> 00:42:25,000

they were some of my favorite ones we've ever done on the show.

650

00:42:25,000 --> 00:42:32,000

Something about seeing the line of the fuse going towards the barrel of explosive stuff.

651

00:42:32,000 --> 00:42:33,000

Satisfies me.

652

00:42:33,000 --> 00:42:37,000

A deep five-year-old level.

653

00:42:37,000 --> 00:42:41,000

A favorite explosion and a viewer myth confirmed.

654

00:42:41,000 --> 00:42:44,000

All in all, a good day's work.

655

00:42:44,000 --> 00:42:46,000

Oh, there I am.

656

00:42:46,000 --> 00:42:51,000

Okay, I could do some formation work if you'd like to.

657

00:43:03,000 --> 00:43:08,000

Did you guys like that last hour?

658

00:43:08,000 --> 00:43:11,000

If you did, you can pat yourselves on the back,

659

00:43:11,000 --> 00:43:16,000

because everything we just did came from the viewers and the fans of Mythbusters.

660

00:43:16,000 --> 00:43:20,000

So please keep your good ideas flowing towards us,

661

00:43:20,000 --> 00:43:23,000

and we'll take the best ones, we'll test them out, and we'll put them on the air.

662

00:43:23,000 --> 00:43:24,000

Thanks.