

1

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

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

2

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

Find out, can a belt buckle grappling hook help you rise to the occasion?

3

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

Then it's fight club superhero style.

4

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

Can a single superhero punch really leave a ring shaped scar?

5

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

And we revealed a mythmobile and try some high speed comic book cornering.

6

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

What happened?

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

Who are the myth busters?

8

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

Adam Savage

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

Wake up! Time for science!

10

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

And Jamie Heineman

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00:01:05,000 --> 00:01:06,000

Must.

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

Is that beautiful or what?

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00:01:08,000 --> 00:01:12,000

Between them more than 30 years of special effects experience.

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00:01:12,000 --> 00:01:14,000

That was totally amazing.

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

Joining them, Grant Imahara

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

No, the crocodile!

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

Tori Bellachy

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00:01:19,000 --> 00:01:21,000

No, tell me what might happen this time!

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00:01:21,000 --> 00:01:23,000

And Carrie Byrus

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00:01:23,000 --> 00:01:25,000

That seems really, really, really dangerous.

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00:01:25,000 --> 00:01:30,000

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

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00:01:43,000 --> 00:01:44,000

Hi, Tori.

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00:01:44,000 --> 00:01:45,000

Hi guys.

24

00:01:45,000 --> 00:01:46,000

How you doing?

25

00:01:46,000 --> 00:01:47,000

Good.

26

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

Don't tell me.

27

00:01:49,000 --> 00:01:50,000

Exactly.

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00:01:50,000 --> 00:01:54,000

We're about to do an entire episode of nothing but superhero myths.

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00:01:54,000 --> 00:01:55,000

Superhero myths?

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00:01:55,000 --> 00:01:57,000

Isn't that going to be kind of impossible to test?

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00:01:57,000 --> 00:01:58,000

Technically, yes.

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

Most superhero powers are totally mythical.

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

No one can run at the speed of light, no one can spin webs,

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

no one turns green when they get angry and has super strength.

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

But there is an aspect that we can test empirically and it most involves gadgets.

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00:02:10,000 --> 00:02:13,000

A mythical superhero gadgets.

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00:02:13,000 --> 00:02:14,000

Exactly.

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00:02:14,000 --> 00:02:15,000

If we're going to do this in true superhero fashion,

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00:02:15,000 --> 00:02:18,000

I think all of you need to put your underwear on the outside of your pants.

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00:02:18,000 --> 00:02:19,000

You're right. Let's do it.

41

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

When disaster strikes...

42

00:02:22,000 --> 00:02:24,000

Fire! Fire!

43

00:02:24,000 --> 00:02:26,000

Superheroes...

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

He is Starman.

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00:02:28,000 --> 00:02:31,000

And their gadgets come to save the day.

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00:02:31,000 --> 00:02:38,000

But now, these torpedoes and tights are also getting put under the Mythbusters microscope.

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00:02:38,000 --> 00:02:40,000

So you look all excited. What's going on?

48

00:02:40,000 --> 00:02:43,000

We are doing a superhero device that I've always wanted to build.

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00:02:43,000 --> 00:02:48,000

It's a key component on the belt of nocturnal echolocating flying mammal man.

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00:02:48,000 --> 00:02:49,000

Batman.

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00:02:49,000 --> 00:02:50,000

Yes.

52

00:02:50,000 --> 00:02:51,000

Shhh.



53

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

Anyway, he's always got this on his belt.

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

And when he's in danger, he'll fire at a wall and go...

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

Poof! Poof!

56

00:02:57,000 --> 00:03:01,000

Stick in the wall, he'll use either a zipline or a mechanical ascender to get himself away.

57

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

It's the grappling gun.

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

We can do that.

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00:03:05,000 --> 00:03:10,000

In a never-ending fight against crime, superheroes often have to leap tall buildings.

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00:03:10,000 --> 00:03:14,000

And if they can't do it in a single bound, like Superman,

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00:03:14,000 --> 00:03:19,000

they could always rely on their trusty grappling guns to give them that extra lift.

62

00:03:21,000 --> 00:03:25,000

But it's climbing a building like this really possible.

63

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

How are we going to test this one?

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00:03:32,000 --> 00:03:34,000

I think that's actually pretty easy.

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

We've just got to get some real off-the-shelf grappling, uh, hugs, and use them to climb some walls.

66

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

And we're going to have to do this one for real, man. We can't fake it this time.

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00:03:46,000 --> 00:03:47,000

No.

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00:03:47,000 --> 00:03:50,000

And so, a short time later...

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00:03:50,000 --> 00:03:52,000

I think it's perfect, right?

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

Yeah, this area ought to be good.

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00:03:53,000 --> 00:03:55,000

The myth-busters have a wall.

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00:03:55,000 --> 00:03:57,000

And Adam, a grappling hook.

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

No superhero technology here, just a regular off-the-shelf grappler.

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00:04:03,000 --> 00:04:07,000

But will this device be enough to let him climb the walls?

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

This is grappling hook number one. It's actually collapsible, so I guess it fits in your bag well.

76

00:04:11,000 --> 00:04:17,000

And you set it up like this, you thread it down, and there, it's ready to go.

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00:04:17,000 --> 00:04:25,000

The Betel Tactical Air Initiated Launch System, Tails for short, was developed for the U.S. Navy to aid ship-to-ship rescue.

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00:04:26,000 --> 00:04:28,000

It's a little bigger than Batman's.

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00:04:28,000 --> 00:04:35,000

It has a tank, it's got a piston, and it just lets the piston go and it shoots the grappling hook.

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00:04:35,000 --> 00:04:37,000

It'll go a hundred feet straight up.

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00:04:37,000 --> 00:04:42,000

And that's a prospect that's got Jamie cackling like a super villain.

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00:04:43,000 --> 00:04:48,000

Before they crawl the wall, they rig a safety system.

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

This setup right here is our safety backup.

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00:04:51,000 --> 00:04:59,000

This is a belay system, and so if there's anything that goes wrong with the grappling hook, this will kick in and keep one of us from falling and hitting the ground.

85

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

Jess will be on the ground paying out rope as one of us tries to climb up.

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

So if that person slips, Jess will catch them.

87

00:05:07,000 --> 00:05:09,000

Jess will catch them.

88

00:05:09,000 --> 00:05:11,000

That's the theory.

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00:05:11,000 --> 00:05:17,000

So will these regular grappling hooks enable Adam and Jamie to walk the wall like the Cape Crusader?

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

You know, I'm not in really great shape like Batman is, but you know, we're going to try.

91

00:05:24,000 --> 00:05:27,000

Oh, I caught a big one. Look at that.

92

00:05:27,000 --> 00:05:30,000

Not to feed my family for a month.

93

00:05:30,000 --> 00:05:36,000

While Adam struggles with the mojo of the throw, Jamie's off like a shot.

94

00:05:36,000 --> 00:05:39,000

Three, two, one.

95

00:05:43,000 --> 00:05:46,000

You cleared the whole building, Jamie. Nice work.

96

00:05:50,000 --> 00:05:53,000

Finally, Adam's grappling hook also grabs hold.

97

00:05:53,000 --> 00:05:54,000

Is that purchase?

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00:05:54,000 --> 00:05:55,000

You've got purchase.

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00:05:55,000 --> 00:05:58,000

So that just leaves the climbing.

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00:05:58,000 --> 00:05:59,000

You all said Batman?

101

00:05:59,000 --> 00:06:01,000

I'm all set, boy wonder.

102

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

Adam attacks the wall head on.

103

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

There's no, this is not going to happen at all.



104

00:06:10,000 --> 00:06:13,000

Don't remember Batman having this much trouble.

105

00:06:13,000 --> 00:06:20,000

With Adam floundering like a fish out of water, Jamie's decided to try a different climbing technique.

106

00:06:20,000 --> 00:06:23,000

What I'm tying here is known as a Prusik knot.

107

00:06:23,000 --> 00:06:25,000

Basically, it's a one-way knot.

108

00:06:25,000 --> 00:06:30,000

When you push on it, it slides up, but when you bear down on it, it won't go the other way.

109

00:06:30,000 --> 00:06:35,000

Thanks to his knots, Jamie soon up, up.

110

00:06:35,000 --> 00:06:38,000

And away.

111

00:06:38,000 --> 00:06:42,000

Oh yeah, he's cruising now.

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

Ladies and gentlemen, there's a new superhero on the block.

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00:06:46,000 --> 00:06:53,000

Jamie Heineman is the inchworm, able to leave tall buildings given plenty of notice.

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00:06:53,000 --> 00:06:56,000

But at least he's gaining altitude.

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

His fellow heroes not scaling, he's absailing.

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00:07:17,000 --> 00:07:20,000

You guys don't mind, I'm just going to lie here for a while.

117

00:07:20,000 --> 00:07:25,000

Jamie eventually makes it to the top.

118

00:07:25,000 --> 00:07:27,000

But not at a great rate of knots.

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00:07:27,000 --> 00:07:33,000

My little knot trick worked, but it took me probably just under 10 minutes to make it up this 20-foot wall.

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00:07:33,000 --> 00:07:38,000

And if you're a superhero trying to save the little old lady, you need to do it quicker than that.

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00:07:38,000 --> 00:07:44,000

While both grappling hooks held firm, it was the boys' ascent that failed.

122

00:07:44,000 --> 00:07:50,000

To get this myth off the ground, they're going to need to build something that can take the climb out of the equation.

123

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

Superhero style.

124

00:07:53,000 --> 00:07:56,000

I think we need to go back to the shop and build our own solution.

125

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

Okay, let's go.

126

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

Coming up on Mythbusters.

127

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

We put superhero myths to the test.

128

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

Next, it's a phantom favorite.

129

00:08:05,000 --> 00:08:09,000

Can a powerhouse punch really leave the baddie grandest?

130

00:08:09,000 --> 00:08:11,000

Oh!

131

00:08:16,000 --> 00:08:19,000

It's the Mythbusters superhero special.

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00:08:19,000 --> 00:08:23,000

And superheroes big and small are getting put to the test.

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00:08:23,000 --> 00:08:28,000

And next up, a superhero myth with a very familiar ring.

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00:08:28,000 --> 00:08:30,000

Are you ready for a fun, violent myth?

135

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

It involves punches.

136

00:08:32,000 --> 00:08:37,000

Sorry, another than the phantom.

137

00:08:37,000 --> 00:08:41,000

He's a superhero that left that nasty calling card on all of his evildoers.

138

00:08:41,000 --> 00:08:47,000

Yeah, you know, he's that guy that could punch people so hard that he'd leave a scar in the shape of a skull from his ring.

139

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

The Plague's the Thing in this comic book classic.

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00:08:52,000 --> 00:09:00,000

A superhero swings and adds imprint to injury by branding the baddie with an indelible ring scar.

141

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

But is that possible even for a superhero?

142

00:09:05,000 --> 00:09:07,000

So how are we going to do this one?

143

00:09:07,000 --> 00:09:15,000

Well, Carrie, I really don't think we should test this on each other because personally, I don't want to risk a permanent scar on my face.

144

00:09:15,000 --> 00:09:17,000

We can't punch each other, who are we going to punch?

145

00:09:17,000 --> 00:09:21,000

Well, it sounds like we're going to need a human analog, so it looks like it's pig time.

146

00:09:21,000 --> 00:09:28,000

Perfect. I think we should use human force as a control and then I'll build a machine to punch with the force of a heavyweight prize fighter.

147

00:09:28,000 --> 00:09:32,000

That's good. That'll give us the maximum strength that a person can punch with.

148

00:09:32,000 --> 00:09:34,000

And if that doesn't work, we'll go superhuman.

149

00:09:34,000 --> 00:09:40,000

You deal with the pig and you build the robot. That means I get to build a Mythbuster Phantom Skull Ring.

150

00:09:40,000 --> 00:09:50,000

The guys won't be pulling any punches. They'll make a fake fist complete with Skull Ring and attach it to an air-powered punching rig.

151

00:09:50,000 --> 00:09:54,000

The rig has to hit like a human, so Grant sets up the force plate.

152

00:09:54,000 --> 00:10:01,000

We're going to see what we can punch. Then we're going to calibrate our robot to punch the same amount and we'll see what we get.

153

00:10:03,000 --> 00:10:05,000

Soon the fists are flying.

154

00:10:07,000 --> 00:10:16,000



But none of these guys have super strength. The best of the three was Tories, which peaked at a rather feeble 1,750 newtons.

155

00:10:16,000 --> 00:10:23,000

But our research says that the upper range, which is a heavyweight boxer, is about 4,000 newtons.

156

00:10:23,000 --> 00:10:24,000

Why?

157

00:10:24,000 --> 00:10:26,000

We're not even close.

158

00:10:27,000 --> 00:10:36,000

As we know, Grant was raised by robots. And given that special affinity, he soon got a punching machine ready to swing.

159

00:10:36,000 --> 00:10:44,000

Okay, so this is our superhero punching rig. Our air cylinder is right here and the fist goes on to the end of this.

160

00:10:44,000 --> 00:10:51,000

And when we're ready, you go... and that gives you a punch.

161

00:10:51,000 --> 00:10:55,000

Tories making a good fist of the making a fist.

162

00:10:55,000 --> 00:11:03,000

What I'm doing right now is I'm casting my hand in a fist shape because we're going to be needing to punch a bunch of times at superhero strikes.

163

00:11:03,000 --> 00:11:08,000

And we want a hand that's not going to break like mine may have.

164

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

That's the theory. And by using a combination of ballistics gel and urethane hardener, Tories should get a fist that can roll with the punches.

165

00:11:18,000 --> 00:11:27,000

Alright, so this looks great. It's really, really hard, but it's still rubber, so it shouldn't shatter when we start punching with superhero strength.

166

00:11:27,000 --> 00:11:33,000

Meanwhile, Carrie's designed some superhero style rings and carved them in wax.

167

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

To keep with the Phantom theme, I've got a skull. Also incorporated the MB for myth busters to make it a little bit more ours.

168

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

Next step is to take all of these rings that I've carved down to the crucible, get them cast up in metal.

169

00:11:45,000 --> 00:11:50,000

I need these two in adamantium and these two in kryptonite.

170

00:11:50,000 --> 00:11:53,000

We don't have either of those, but we do have sterling silver.

171

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

Sterling silver will do nice.

172

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

Faster than a speeding bullet, Carrie's rings are ready.

173

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

Primrose beware the mark of the myth buster.

174

00:12:02,000 --> 00:12:06,000

Whoa, cool! Let me see, let me see.

175

00:12:06,000 --> 00:12:08,000

Dude, you look like a rapper.

176

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

That is cool.

177

00:12:10,000 --> 00:12:13,000

Tori glues one of the rings on his dummy fist.

178

00:12:13,000 --> 00:12:17,000

The Phantom, he always has his punching ring on his middle finger.

179

00:12:17,000 --> 00:12:20,000

Now we can start fighting crime.

180

00:12:20,000 --> 00:12:30,000

Old Yorick here, who we all knew well, was last seen being turned into a locked-hit cabal as the guys burst a car airbag myth.

181

00:12:30,000 --> 00:12:33,000

And now he's back for some superhero science.

182

00:12:33,000 --> 00:12:38,000

First up, Tori gives the skull a little pig skin for the ring to round.

183

00:12:38,000 --> 00:12:41,000

So, you named your guy there?

184

00:12:41,000 --> 00:12:42,000

Yes.

185

00:12:42,000 --> 00:12:43,000

What did you name him?

186

00:12:43,000 --> 00:12:44,000

Pork Loinio.

187

00:12:44,000 --> 00:12:45,000

You did not.

188

00:12:45,000 --> 00:12:48,000

He's an evil pig, man.

189

00:12:48,000 --> 00:12:51,000

Okay, Pork Loinio, you ask for it.

190

00:12:51,000 --> 00:12:54,000

Prepare to feel the sting of the ring.

191

00:12:54,000 --> 00:12:56,000

First, at Tori's force.

192

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

Three, two, one.

193

00:13:02,000 --> 00:13:03,000

Nice punch!

194

00:13:05,000 --> 00:13:07,000

He clobbered him.

195

00:13:07,000 --> 00:13:08,000

Good hit.

196

00:13:08,000 --> 00:13:14,000

It's definitely a good punch to the head, and it would hurt a lot, but I don't see a scar in the shape of a skull.

197

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

Just a mild contusion.

198

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

Tori failed to land the knockout blow to confirm this superhero classic.

199

00:13:21,000 --> 00:13:22,000

How about a heavyweight?

200

00:13:22,000 --> 00:13:23,000

Here we go.

201

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

This is a heavyweight fighter strength in three, two, one.

202

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

No one will see any skull in the flesh.

203

00:13:37,000 --> 00:13:44,000

It sure was ugly, but 4,000 Newtons wasn't enough to put the sign of the skull on old Pork Loinio.

204

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

Even in this best case, taugt skin scenario.



205

00:13:49,000 --> 00:13:51,000

Superhero strength?

206

00:13:51,000 --> 00:13:52,000

Yeah.

207

00:13:52,000 --> 00:13:54,000

Okay, the gloves are off.

208

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

The fist flashes at 120 psi.

209

00:13:58,000 --> 00:13:59,000

Three, two, one.

210

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

One.

211

00:14:05,000 --> 00:14:07,000

That was a shot.

212

00:14:07,000 --> 00:14:10,000

And for Plorio's feeling a little crushed.

213

00:14:10,000 --> 00:14:17,000

You might not leave it in, you know, like the print of the ring, but you're definitely going to rip through the scalps.

214

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

There's no way to leave a perfect skull-shaped scar without doing more permanent damage.

215

00:14:22,000 --> 00:14:27,000

This superhero myth, like our comic book criminal, is out for the count.

216

00:14:27,000 --> 00:14:29,000

I guess we can call this one right here.

217

00:14:29,000 --> 00:14:31,000

We don't need to go any further.

218

00:14:31,000 --> 00:14:32,000

You feeling it's busted?

219

00:14:32,000 --> 00:14:33,000

Just like a skull.

220

00:14:33,000 --> 00:14:34,000

Yeah!

221

00:14:34,000 --> 00:14:35,000

Busted!

222

00:14:58,000 --> 00:15:11,000

Put on your cape, dust off your tights, and take to the skies, because the mythbusters are seeing if superhero gadgets are nothing more than a flash in the pan.

223

00:15:13,000 --> 00:15:21,000

Adam and Jamie are first trying to find out if the miniscule, handheld grappling hooks that oist up superheroes can really work.

224

00:15:22,000 --> 00:15:29,000

So far their efforts have been more comical than comic book, but now they've hatched an evil plan.

225

00:15:30,000 --> 00:15:35,000

I think our course is pretty clear. I think we're going to have to build this device ourselves.

226

00:15:36,000 --> 00:15:43,000

Yeah, but it seems to me that there are actually two distinct elements to this cable gun winch thing.

227

00:15:43,000 --> 00:15:44,000

Okay, what are they?

228

00:15:44,000 --> 00:15:47,000

Well, you've got the winch, and you've got the gun.

229

00:15:47,000 --> 00:15:51,000

So why don't we treat them separately? One of us build one, and one build the other.

230

00:15:51,000 --> 00:15:58,000

So why don't you take the mechanical ascending rig, and I'll take the gun that fires the thing into the wall that sticks in the wall.

231

00:15:58,000 --> 00:15:59,000

Okay.

232

00:15:59,000 --> 00:16:02,000

And then we'll finish off with the final climb off.

233

00:16:02,000 --> 00:16:03,000

Great.

234

00:16:03,000 --> 00:16:04,000

Alright.

235

00:16:04,000 --> 00:16:07,000

Our superheroes go head to head.

236

00:16:07,000 --> 00:16:13,000

Jamie's task is to build a super lightweight winch to ascend buildings at the push of a button.

237

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

Adam's making a device that can shoot a cable into a concrete wall.

238

00:16:20,000 --> 00:16:22,000

I got the nail in there. Look at that.

239

00:16:22,000 --> 00:16:30,000

There's just one rule. Both gadgets have to be as small as possible so they can fit on a superhero's belt.

240

00:16:31,000 --> 00:16:38,000

The challenge in this particular case is how small can we get it? It's got to be really powerful and really small.

241

00:16:38,000 --> 00:16:43,000

Jamie's device straps to his forearm and is powered by a battery on his belt.

242

00:16:43,000 --> 00:16:55,000

The motor is the smallest and fastest he could find. It puts out 30,000 RPM, but by itself it's not powerful enough to hoist high-tem in up a high-rise.

243

00:16:55,000 --> 00:17:01,000

These gear reductions actually translate the power that this engine puts out into something I can use.

244

00:17:01,000 --> 00:17:06,000

Instead of 30,000 RPM, they're reducing the speed and increasing the torque.

245

00:17:06,000 --> 00:17:12,000

So I end up with something that is 750 RPM, but very powerful.

246

00:17:12,000 --> 00:17:19,000

It sure got a flashy superhero feel, but will it work? Jamie's going to test it on his sidekick.

247

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

What I'm going to do instead of trying to pull myself up is actually pull Jess along the floor.

248

00:17:25,000 --> 00:17:28,000

She's going to go skiing in the shop.

249

00:17:28,000 --> 00:17:30,000

Alright, Jamie, I'm ready.

250

00:17:30,000 --> 00:17:35,000

Does Jamie's rig have the pulling power to make Jess do the shop floor shimmy?

251

00:17:43,000 --> 00:17:44,000

It worked.

252

00:17:44,000 --> 00:17:48,000

It worked. Looks like superhero gadget number one is ready to roll.

253

00:17:48,000 --> 00:17:57,000

Meanwhile, on the other side of the myth cave, Adam's getting the drop on his cable-firing device.

254

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

Sorry.

255



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

The centerpiece of his design is a .22 caliber nail gun.

256

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

It takes a rim-fire .22 caliber shell here, sticks in there, put your nail on the tip, bring it up to it, bang, hit it, crack.

257

00:18:14,000 --> 00:18:19,000

.22 caliber shell fires a nail right into the concrete.

258

00:18:19,000 --> 00:18:26,000

His cutting plan, attach the cable to the nail gun, then fire that from a diver's spear gun.

259

00:18:26,000 --> 00:18:33,000

When the nail gun hits the wall, the blank rim fires the nail into the concrete and the cable's ready to cross.

260

00:18:33,000 --> 00:18:34,000

Like this.

261

00:18:34,000 --> 00:18:38,000

In three, two, one.

262

00:18:38,000 --> 00:18:41,000

Oh, well, sorta.

263

00:18:41,000 --> 00:18:43,000

Batman probably didn't get it on his first try either.

264

00:18:43,000 --> 00:18:44,000

No.

265

00:18:44,000 --> 00:18:46,000

So, you know, it's going to take time.

266

00:18:46,000 --> 00:18:48,000

Three, two, one.

267

00:18:48,000 --> 00:18:49,000

Oh.

268

00:18:49,000 --> 00:18:52,000

Shoot, you got to work out that hitting the wall part.

269

00:18:53,000 --> 00:18:58,000

The scene is set for a superhero grappling gadget showdown.

270

00:18:58,000 --> 00:18:59,000

You all set with that thing?

271

00:18:59,000 --> 00:19:00,000

I am.

272

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

You're just working?

273

00:19:01,000 --> 00:19:02,000

Works like a charm.

274

00:19:02,000 --> 00:19:03,000

Let's go be Batman.

275

00:19:03,000 --> 00:19:04,000

Okay.

276

00:19:09,000 --> 00:19:10,000

I know.

277

00:19:10,000 --> 00:19:13,000

It looks like we're having a lot of fun playing superheroes and messing around with gadgets,

278

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

and we actually covered a lot of superhero science.

279

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

If you want to see it, go to [discovery.com](http://discovery.com) slash MythBusters.

280

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

All superheroes have costumes.

281

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

Some better than others.

282

00:19:23,000 --> 00:19:28,000

But can you really get changed in a phone booth in time to save the day?

283

00:19:28,000 --> 00:19:29,000

What's in the bag?

284

00:19:29,000 --> 00:19:30,000

Superhero costumes.

285

00:19:30,000 --> 00:19:32,000

There's one more myth that we want to test.

286

00:19:32,000 --> 00:19:37,000

It's not really a myth, but we want to see how fast we can change into a super outfit before we go fight crime.

287

00:19:37,000 --> 00:19:38,000

All right.

288

00:19:38,000 --> 00:19:39,000

Who wants to go first?

289

00:19:39,000 --> 00:19:40,000

I'll go.

290

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

All right.

291

00:19:41,000 --> 00:19:45,000

When Carrie Byron gets the call for help, she doesn't waste a second.

292

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

I like she does the hair flip.

293

00:19:47,000 --> 00:19:48,000

She wins my vote.

294

00:19:48,000 --> 00:19:53,000

Emerging mere moments later as the one and only MythGirl.

295

00:19:53,000 --> 00:19:54,000

Stopping the time.

296

00:19:54,000 --> 00:19:56,000

You did it in 33 seconds.

297

00:19:56,000 --> 00:20:02,000

So Carrie could get changed in the crime space, but hardly at superhero speed.

298

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

Can Grant do any better?

299

00:20:07,000 --> 00:20:10,000

Will he have to phone for help to get out?

300

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

Come on, get out.

301

00:20:13,000 --> 00:20:15,000

And time stopped.

302

00:20:15,000 --> 00:20:17,000

MythGirl has beaten you.

303

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

Your time was one minute, one second.

304

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

It's the last chance for this crew.

305

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

Can Torry strip faster than a speeding bullet?

306

00:20:29,000 --> 00:20:31,000

You got too many accessories.



307

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

Minutes 20.

308

00:20:36,000 --> 00:20:43,000

Torry was the slowest, but villains can never rest, not whenever the spazms on their trail.

309

00:20:43,000 --> 00:20:44,000

Wait a minute.

310

00:20:44,000 --> 00:20:46,000

The spazms?

311

00:20:46,000 --> 00:20:48,000

He has muscle spazms.

312

00:20:48,000 --> 00:20:50,000

So the bad guys never know what he's going to attack.

313

00:20:51,000 --> 00:20:53,000

Can be here, or here.

314

00:20:53,000 --> 00:20:54,000

Sometimes I don't even know.

315

00:20:54,000 --> 00:21:04,000

Well, I may have had 33 seconds, which was the quickest time, but I need that extra time so that I can catch up to the boys in these spiked stiletto heels.

316

00:21:04,000 --> 00:21:07,000

You know, you can't be Grant Man all the time.

317

00:21:07,000 --> 00:21:09,000

Sometimes you just have to be Grant.

318

00:21:09,000 --> 00:21:10,000

Should we go fight crime?

319

00:21:10,000 --> 00:21:12,000

Yeah, let's go.

320

00:21:14,000 --> 00:21:24,000

Coming next, The MythMobile gets a makeover with Loose Cannon's Carrie Grant and Torry.

321

00:21:24,000 --> 00:21:28,000

That's the first time that I've ever felt that much danger.

322

00:21:31,000 --> 00:21:34,000

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

323

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

Ever.

324

00:21:37,000 --> 00:21:45,000

We're flying high in a superhero special, and The Next Myth combines cars and comic book craziness.

325

00:21:45,000 --> 00:21:48,000

Next up, Batmobile 90 degree tour.

326

00:21:48,000 --> 00:22:01,000

Batman, to get away from the bad guys, screaming down the street, and to escape, all he has to do is push a button that deploys a grappling hook, grabs onto his steel structure, and it whirls him around the corner, and the crooks can't get him.

327

00:22:01,000 --> 00:22:03,000

Dude, that sounds awesome.

328

00:22:04,000 --> 00:22:08,000

Holy awesome, this Grant Man. Let's see how this myth works.

329

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

During our comic strip car chase, our hero hits a button, and a grappling hook fires from the car, wraps itself around a steel structure, and swings our superheroes through a high speed 90 degree turn to safety.

330

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

We have to build a cannon capable of firing a grappling hook.

331

00:22:25,000 --> 00:22:32,000

A grappling hook strong enough to hold the force of a car, and if all that works, hope that the structure doesn't crumble.

332

00:22:33,000 --> 00:22:45,000

Here's the plan. The guys will mount an air powered cannon in a car, fire a grappling hook at speed, and see if the cable can swing the car around a right angle bend.

333

00:22:45,000 --> 00:22:49,000

First things first though, this myth needs wheels.

334

00:22:49,000 --> 00:22:53,000

Obviously we're going to need a car for all this, and I have the perfect one in mind.

335

00:22:53,000 --> 00:22:57,000

Jamie and Adam just did a night rider myth, and they have a car just rusting out in the parking lot.

336

00:22:57,000 --> 00:22:59,000

The Mythmobile.

337

00:22:59,000 --> 00:23:01,000

Did you just come up with that?

338

00:23:01,000 --> 00:23:03,000

Yeah.

339

00:23:03,000 --> 00:23:21,000

The Joker aside, this car is perfect for this myth, because it's already been fitted with a roll cage and safety harnesses, which means all Carrie and Tori have to do is transform the transport into something more befitting a superhero.

340

00:23:21,000 --> 00:23:26,000

This is going to be the coolest Batmobile ever.

341

00:23:26,000 --> 00:23:32,000

Meanwhile, Grant's finding out more about the serious physics facing them in this myth.

342

00:23:32,000 --> 00:23:40,000

One thing we have to consider with this myth is that we're going from a straight path once we hook onto that structure into a circular one.

343

00:23:40,000 --> 00:23:51,000

Now, this induces a force that points inwards towards the center called centripetal force, and you can calculate that based on the weight of the car, the distance from the center, and the speed that you're going.

344

00:23:51,000 --> 00:23:59,000

I've run the numbers, and we should be experiencing about 7,000 pounds, and that's going to be the tension on the cable.

345

00:23:59,000 --> 00:24:05,000

So we're going to select our cable to be more than adequate to handle that amount of force.

346

00:24:07,000 --> 00:24:15,000

Will the mythmobile be able to cope with that kind of hardcore cornering? One thing it can turn is heads.

347

00:24:15,000 --> 00:24:17,000

What do you think of the car?

348

00:24:17,000 --> 00:24:19,000

Cool.

349

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

The cable is ready at stage one.

350

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

Stage two, they need a grappling hook.

351

00:24:28,000 --> 00:24:32,000

I want to keep going. I think if we use a solid steel grappling hook, that might work.

352

00:24:32,000 --> 00:24:40,000

Well, I've got an idea for an air cannon to launch the grappling hook, but if you're going to use solid steel, we're going to have to make it a lot more powerful.

353

00:24:40,000 --> 00:24:45,000

And I have the answer. I'm going to use nitrogen, which will give us up to 3,000 psi of working pressure.

354

00:24:45,000 --> 00:24:46,000

Oh my God.

355

00:24:46,000 --> 00:24:48,000

Dude, that sounds super hero-y.

356



00:24:48,000 --> 00:24:59,000

3,000 psi? To put that into perspective, Grant's cannon will be 60 times more powerful than Adam and Jamie's famous chicken gun.

357

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

Woo!

358

00:25:00,000 --> 00:25:06,000

But because it has to fit into a superhero's car, it'll be much more compact.

359

00:25:06,000 --> 00:25:08,000

Holy air cannon, Grant man.

360

00:25:10,000 --> 00:25:12,000

How long have you been waiting to unleash that?

361

00:25:12,000 --> 00:25:13,000

All day.

362

00:25:13,000 --> 00:25:14,000

All day.

363

00:25:14,000 --> 00:25:15,000

I've been waiting for that one.

364

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

You know, this is actually the most dangerous thing I've built in the long line of dangerous things.

365

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

Tari's bending steel likes Superman, except Superman doesn't have to heat his up first.

366

00:25:30,000 --> 00:25:34,000

All right, so the grappling hook is done. We weighed it. It weighs 10 and a half pounds.

367

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

Now we're going to put it in the air cannon and see how far it goes.

368

00:25:38,000 --> 00:25:47,000

This time the cannon's at two-thirds power. Will that be enough to send 10 pounds of solid steel through the air and comic book style?

369

00:25:48,000 --> 00:25:49,000

All right, you ready?

370

00:25:49,000 --> 00:25:51,000

Oh, so ready.

371

00:25:51,000 --> 00:25:53,000

2200 real hook.

372

00:25:55,000 --> 00:25:58,000

In three, two, one.

373

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

Oh my God!

374

00:26:03,000 --> 00:26:07,000

The cannon launched the hook all right. It also launched itself clean off the table.

375

00:26:08,000 --> 00:26:09,000

Where's the camera?

376

00:26:09,000 --> 00:26:11,000

Where's the high speed camera?

377

00:26:11,000 --> 00:26:14,000

The phrase, loose cannon comes to mind.

378

00:26:14,000 --> 00:26:18,000

You know what? We didn't take into consideration the mass of the hook.

379

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

Oh, Newton's Laws.

380

00:26:20,000 --> 00:26:21,000

Whoa, man.

381

00:26:21,000 --> 00:26:23,000

We forgot the Newton's Laws.

382

00:26:23,000 --> 00:26:29,000

Oh, you mean the one that says for every action there's an equal and opposite reaction?

383

00:26:32,000 --> 00:26:39,000

You know, we've done a lot of experiments on the show. Things have gone wrong, but that's the first time that I've ever felt that much danger.

384

00:26:39,000 --> 00:26:42,000

So for test two, they lock the cannon in place.

385

00:26:42,000 --> 00:26:46,000

In three, two, one.

386

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

And get a perfect result.

387

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

Wow, nice.

388

00:26:52,000 --> 00:26:55,000

The grappling hook flew straight as an arrow.

389

00:26:55,000 --> 00:26:57,000

So bring on the Mythmobile.

390

00:26:57,000 --> 00:27:05,000

Stay tuned, superhero fans, to see if the Mythmobile can make that corner in true superhero style.

391

00:27:05,000 --> 00:27:09,000

But next, it's up, up and away.

392

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

Super grappling gadgets are gold.

393

00:27:11,000 --> 00:27:13,000

Who says superheroes don't bleed?

394

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

It's the Mythbusters superhero special.

395

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

If you're a cake-clad hero, it's not good for the image to be seen taking the elevator.

396

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

You get much more cred if you fire your trusty grappling hook and quickly ascend to the city skyline.

397

00:27:34,000 --> 00:27:42,000

Adam and Jamie have devised their own miniature superhero-style grappling devices and are looking for the same uplifting experience.

398

00:27:42,000 --> 00:27:46,000

Perfect. You want to go first or should I?

399

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

Sure, I'll go first.

400

00:27:47,000 --> 00:27:48,000

How about right over here?

401

00:27:48,000 --> 00:27:53,000

Today we've come north of the Mythbusters shop to the Hamilton Air Force Base in Nevada.

402

00:27:53,000 --> 00:27:59,000

And while it may look like an abandoned aircraft hangar, in fact, it is a super-modern superhero training facility.

403

00:27:59,000 --> 00:28:05,000

Jamie prepares to go from mild-mannered Mythbuster to skybound superhero.

404

00:28:05,000 --> 00:28:06,000

Adam's impressed.

405

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

That's awesome.

406

00:28:09,000 --> 00:28:13,000

Awesome it may be, but does it fit the size criteria?



407

00:28:13,000 --> 00:28:18,000

Remember, superhero devices are unfeasibly small.

408

00:28:18,000 --> 00:28:20,000

I think it qualifies in the size criteria.

409

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

The motor he's chosen is absolutely the highest-powered, tiny motor that is out there that's declassified.

410

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

Jamie's rig doesn't have to shoot the cable.

411

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

We just want to know if it can lift him like a superhero.

412

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

God, I hate this thing.

413

00:28:36,000 --> 00:28:39,000

Give me a ladder any day of the week.

414

00:28:39,000 --> 00:28:41,000

Adam attaches Jamie's cable to a beam.

415

00:28:41,000 --> 00:28:45,000

So Jamie's climb is going to be a straight vertical ascent.

416

00:28:45,000 --> 00:28:47,000

There's going to be nothing around him.

417

00:28:47,000 --> 00:28:55,000

He is using only the tiny line that's high-test to get him to the rafters, which are about 27 feet off the floor.

418

00:28:55,000 --> 00:28:59,000

Just in case it's not clear, this line is a safety.

419

00:28:59,000 --> 00:29:02,000

This isn't helping in any way to pull me up.

420

00:29:02,000 --> 00:29:07,000

This is only in case this breaks, then Adam and Jess will stop me.

421

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

Can Jamie's grappling gadget get him off the ground?

422

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

Okay, in three, two, one.

423

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

Jamie's soaring towards success when the cable suddenly snaps.

424

00:29:28,000 --> 00:29:34,000

And like Superman after a brush with kryptonite, our hero comes back down to earth.

425

00:29:35,000 --> 00:29:38,000

I think I should maybe pick the slightly heavier line.

426

00:29:38,000 --> 00:29:40,000

Did the line snap?

427

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

Thanks to Adam and Jess, Jamie was spared a painful fall from grace.

428

00:29:45,000 --> 00:29:51,000

It's a little scary actually, but the motor actually didn't even know I was there.

429

00:29:51,000 --> 00:29:53,000

So there's plenty of power.

430

00:29:53,000 --> 00:29:57,000

The heavier lines wound on, and once again...

431

00:29:58,000 --> 00:29:59,000

Yeah, it's good!

432

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

Jamie's all up in the air.

433

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

All the way!

434

00:30:04,000 --> 00:30:06,000

Oh, come on! Oh!

435

00:30:06,000 --> 00:30:08,000

You can do it!

436

00:30:08,000 --> 00:30:09,000

Oh!

437

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

I made it.

438

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

That's a sure-fire superhero success, just like the comic strip.

439

00:30:18,000 --> 00:30:22,000

He made it from the floor to the rafters in 20 seconds. That's 27 feet.

440

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

That's superhero speed.

441

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

But how's he going to get back down?

442

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

Ah, shoot.

443

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

The rig's got no reverse gear.

444

00:30:33,000 --> 00:30:38,000

With the device strapped to his arm, Jamie has no choice but to sever the line.

445

00:30:38,000 --> 00:30:42,000

And hope Adam and Jess can give him a soft landing.

446

00:30:42,000 --> 00:30:44,000

He makes the cut.

447

00:30:45,000 --> 00:30:48,000

And that's when things come crashing down.

448

00:30:48,000 --> 00:30:52,000

I just whacked myself in the nose really hard.

449

00:30:53,000 --> 00:30:58,000

Yeah, I cut the line and it was like snap! Wow!

450

00:30:58,000 --> 00:31:02,000

Just not the kind of thing you want to hit yourself in the face with.

451

00:31:02,000 --> 00:31:07,000

This thing has balls. It's totally capable of pulling me up and more.

452

00:31:07,000 --> 00:31:12,000

We just built in a couple days, so it's got some bugs, so sue me.

453

00:31:12,000 --> 00:31:18,000

But with another day, maybe I can make this really sweet and it's just fantastic.

454

00:31:18,000 --> 00:31:20,000

It works like a charm.

455

00:31:20,000 --> 00:31:23,000

So Jamie passed with flying colors.

456

00:31:23,000 --> 00:31:27,000

A miniature motorized ascender is really possible.

457

00:31:27,000 --> 00:31:32,000

Which means next up, it's Adam and his concrete piercing grappler.

458

00:31:32,000 --> 00:31:35,000



I hadn't come up with a name for it.

459

00:31:35,000 --> 00:31:39,000

Nocturnal echolocating flying mammal man's cable shooter.

460

00:31:39,000 --> 00:31:41,000

How's that?

461

00:31:42,000 --> 00:31:48,000

Stunt driving superheroes only have to fire a grappling hook at a convenient roadside structure,

462

00:31:48,000 --> 00:31:53,000

and their car squeals through a 90 degree turn at super speed.

463

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

The mythbusters want to see what the laws of physics have to say about that.

464

00:31:57,000 --> 00:32:03,000

Our intrepid trio have test-fired their grappling hook at 2,000 psi.

465

00:32:03,000 --> 00:32:05,000

Oh my god!

466

00:32:05,000 --> 00:32:11,000

So now we have a working cannon, a working grappling hook, and a mythmobile.

467

00:32:11,000 --> 00:32:14,000

It's time to marry the three together.

468

00:32:14,000 --> 00:32:20,000

The cannon is mounted on a heavy duty bracket directly behind the passenger seat,

469

00:32:20,000 --> 00:32:24,000

and a hole cut to make room for the barrel.

470

00:32:24,000 --> 00:32:26,000

Cool!

471

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

It fits!

472

00:32:31,000 --> 00:32:34,000

So the cannon's working, the hook is strong.

473

00:32:34,000 --> 00:32:36,000

I think we're ready to go.

474

00:32:36,000 --> 00:32:39,000

But we're going to have to find something that's going to be strong enough that once we grapple onto it,

475

00:32:39,000 --> 00:32:41,000

the weight of the car isn't just going to rip it down.

476

00:32:41,000 --> 00:32:46,000

Well, we've been looking at railway supports, radio towers, and lamp posts.

477

00:32:46,000 --> 00:32:48,000

And finally, we've got a new car.

478

00:32:48,000 --> 00:32:50,000

It's a new car.

479

00:32:50,000 --> 00:32:55,000

Well, we've been looking at railway supports, radio towers, and lamp posts.

480

00:32:55,000 --> 00:33:00,000

And funnily enough, no one is willing to let us wreck their structures for our experiment.

481

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

We're going to have to build something, aren't we?

482

00:33:02,000 --> 00:33:04,000

Uh, yeah.

483

00:33:04,000 --> 00:33:08,000

At an old abandoned naval base nearby, the time lapse kicks in,

484

00:33:08,000 --> 00:33:15,000

and the team has its steel structure, complete with nooks and crannies for a hook to hook into.

485

00:33:15,000 --> 00:33:21,000

They mark out their 90-degree turn and make a mini-mythome city out of boxes.

486

00:33:21,000 --> 00:33:27,000

The next thing we have to do is establish a speed at which you cannot make that 90-degree turn without the grappling hook.

487

00:33:27,000 --> 00:33:29,000

That will be our starting speed.

488

00:33:29,000 --> 00:33:38,000

So first off, with the hook under wraps, they're going to find out the speed at which turning the corner without a grappler is impossible.

489

00:33:42,000 --> 00:33:44,000

Carrie, what happened?

490

00:33:44,000 --> 00:33:47,000

Turned the wheel, it locked, skid completely into it, it went...

491

00:33:49,000 --> 00:33:52,000

Carrie lost control at 30 miles per hour.

492

00:33:52,000 --> 00:33:55,000

So that'll be the speed for our first grappling hook test.

493

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

This is all a little frightening.

494

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

We've seen what this grappling hook can do, and now we're going to drive and fire it.

495

00:34:02,000 --> 00:34:07,000

Coming up, can the mythmobile make a superhero stunt a reality?

496

00:34:07,000 --> 00:34:08,000

Whoa!

497

00:34:08,000 --> 00:34:11,000

But next, Adam swings into action.

498

00:34:15,000 --> 00:34:26,000

In the Mythbusters Superhero Special, Janie just leaped a tall building with a single motor, but can Adam fire a line into a wall?

499

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

This is an underwater speargun firing this weight behind a .22 caliber rimfire concrete nail round,

500

00:34:33,000 --> 00:34:36,000

which will activate this piston driving this nail into the wall.

501

00:34:36,000 --> 00:34:41,000

Also on its way, it will be dragging this cable going into the wall,

502

00:34:41,000 --> 00:34:45,000

hopefully leaving it in the wall with enough force that I can tie it off at the other end,

503

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

hook it, pull it up to it, and down to the wall.

504

00:34:49,000 --> 00:34:53,000

It's not as small as something Batman would use, but will it work?

505

00:34:54,000 --> 00:35:00,000

Adam takes his position on his make-believe rooftop and takes aim at the villain's lair.

506

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

Three, two, one.

507

00:35:04,000 --> 00:35:06,000

Alright, reset.

508

00:35:06,000 --> 00:35:07,000

He reloads.

509

00:35:08,000 --> 00:35:09,000

Again.



510

00:35:11,000 --> 00:35:12,000

And again.

511

00:35:14,000 --> 00:35:19,000

The nail gun's firing when it hits the wall, but for some reason the nails aren't penetrating.

512

00:35:19,000 --> 00:35:25,000

Scenes those dastardly crooks have built their hideout from some sort of super tough material.

513

00:35:25,000 --> 00:35:30,000

This is definitely harder concrete than anything I've dealt with before, because I've never seen that kind of thing.

514

00:35:30,000 --> 00:35:32,000

And it is a military base.

515

00:35:32,000 --> 00:35:34,000

It is a military base.

516

00:35:34,000 --> 00:35:36,000

But a superhero never gives up.

517

00:35:36,000 --> 00:35:45,000

Unfortunately, the way it works in Batman movies doesn't involve him shooting at something, bouncing off and falling on the ground.

518

00:35:45,000 --> 00:35:49,000

However, that's probably the reality of this type of device.

519

00:35:49,000 --> 00:35:53,000

But Persevere in Savage finally finds a chink in the armor.

520

00:35:57,000 --> 00:35:58,000

Well, I think I'm in.

521

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

You're in.

522

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

Dude, I'm trying it.

523

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

Go for it.

524

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

Here we go.

525

00:36:06,000 --> 00:36:10,000

The nail's not in deep, but our hero's gonna swing into action.

526

00:36:10,000 --> 00:36:17,000

Adam clips into a safety harness and prepares to put his superhero status on the line, literally.

527

00:36:17,000 --> 00:36:19,000

I'm flipping into the line, boy wonder.

528

00:36:19,000 --> 00:36:25,000

Can Adam swing to superhero glory or will he plummet to sidekick status?

529

00:36:25,000 --> 00:36:27,000

And three, two, one.

530

00:36:33,000 --> 00:36:35,000

Oh, it looks like your boy wanted it.

531

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

The line couldn't hold Adam's weight.

532

00:36:39,000 --> 00:36:44,000

The nail pulled straight out of the wall, leaving him just hanging around.

533

00:36:44,000 --> 00:36:51,000

Personally, I think the idea of a belt-sized shooter that will get you into any kind of wall, it's totally busted.

534

00:36:51,000 --> 00:36:53,000

Can someone let me down now?

535

00:36:53,000 --> 00:36:56,000

I would say that your device was exceptional.

536

00:36:56,000 --> 00:37:05,000

It really did, I think, make a plausible case for a belt-wearable superhero-like mechanical ascending rig.

537

00:37:05,000 --> 00:37:06,000

Well, thank you.

538

00:37:06,000 --> 00:37:15,000

And your cable shooting rig actually seemed like it worked quite well, but it just didn't quite make it into this hardened concrete.

539

00:37:15,000 --> 00:37:19,000

I'm not so sure that I'm ready to give that one up, but for now we have to call it busted.

540

00:37:19,000 --> 00:37:20,000

Yeah, totally busted.

541

00:37:20,000 --> 00:37:21,000

Let's get out of here.

542

00:37:21,000 --> 00:37:22,000

All right.

543

00:37:27,000 --> 00:37:36,000

Our superhero special is accelerating towards its climax.

544

00:37:36,000 --> 00:37:46,000

Carrie, Tori and Grant are all set to discover if their grappling hook cannon can let them make a superhero-style 90-degree turn without slowing down.

545

00:37:46,000 --> 00:37:48,000

Every precaution has been taken.

546

00:37:48,000 --> 00:37:51,000

Carrie and Grant are in full safety gear.

547

00:37:51,000 --> 00:37:54,000

There's a ballistics panel between them and the cannon.

548

00:37:54,000 --> 00:37:59,000

The car has been fitted with roll bars, and the grappling hook rope is on a quick release.

549

00:37:59,000 --> 00:38:04,000

There's a quick release, which is going to be remote-controlled by Tori.

550

00:38:04,000 --> 00:38:09,000

If he doesn't let that quick release go at the right time, we could flip around and careen into this building.

551

00:38:09,000 --> 00:38:12,000

So now is when this experiment starts to get scary.

552

00:38:12,000 --> 00:38:14,000

The key to success is the rope.

553

00:38:14,000 --> 00:38:20,000

Once the hook grabs hold, the line will have to withstand 7,000 pounds of centripetal force.

554

00:38:20,000 --> 00:38:23,000

This is the highest performance material you can buy these days.

555

00:38:23,000 --> 00:38:28,000

It's used by the military, and strength for weight ratio, it's stronger than steel.

556

00:38:28,000 --> 00:38:29,000

All right. This is the plan.

557

00:38:29,000 --> 00:38:30,000

Carrie's going to drive down this road.

558

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

She's going to get up to 30 miles an hour.

559

00:38:32,000 --> 00:38:34,000

At this point, Grant's going to fire the cannon.

560



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

Bang!

561

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

The hook is going to grapple onto our structure as soon as the rope gets taught.

562

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

She's going to make the turn around the 90-degree turn.

563

00:38:41,000 --> 00:38:46,000

As soon as they get to this point, I'm going to quick release the rope, and they'll be able to drive off.

564

00:38:48,000 --> 00:38:51,000

Is this comic strip stunt possible?

565

00:38:51,000 --> 00:38:56,000

If so, will it take superhero strength to keep the myth-mobile under control?

566

00:39:06,000 --> 00:39:07,000

We hit it!

567

00:39:07,000 --> 00:39:08,000

She made it.

568

00:39:08,000 --> 00:39:11,000

Did my eyes deceive me, or did she just make that turn?

569

00:39:11,000 --> 00:39:14,000

Actually, Tori, your eyes did deceive you.

570

00:39:14,000 --> 00:39:16,000

The firing was spot-on.

571

00:39:16,000 --> 00:39:22,000

The car started to make the turn, but just when the G-Force maxed out, the rope snapped again,

572

00:39:22,000 --> 00:39:25,000

and the car plowed into the buildings.

573

00:39:26,000 --> 00:39:27,000

Now we made it!

574

00:39:27,000 --> 00:39:28,000

I know!

575

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

It's too good to be true.

576

00:39:30,000 --> 00:39:33,000

It's all right. The troplos wasn't built in the day.

577

00:39:33,000 --> 00:39:36,000

Now, let me remind you what the situation is here.

578

00:39:36,000 --> 00:39:44,000

I'm trying to hit a target this big, from the side of a car moving at 30 miles an hour with a nitrogen-powered cannon.

579

00:39:44,000 --> 00:39:47,000

Not exactly the easiest thing to do in the world.

580

00:39:47,000 --> 00:39:50,000

Despite Grant's difficulties, everything's working.

581

00:39:50,000 --> 00:39:53,000

Carrie's maintaining correct course and speed.

582

00:39:53,000 --> 00:39:56,000

Grant's right on the money firing the cannon.

583

00:39:58,000 --> 00:40:02,000

The only weak link is the one connecting myth-mobile to grappling hook.

584

00:40:02,000 --> 00:40:04,000

But they've got one last chance.

585

00:40:04,000 --> 00:40:13,000

We're going to replace the high-strength, high-tech fiber rope with 3-th inch steel cable.

586

00:40:14,000 --> 00:40:20,000

The steel cable has a breaking strength of almost 15,000 pounds, but it comes at a price.

587

00:40:20,000 --> 00:40:26,000

It's so heavy and inflexible that it may not be able to wrap around the structure.

588

00:40:28,000 --> 00:40:30,000

This is the final throw of the dice.

589

00:40:30,000 --> 00:40:32,000

All right, release the hound.

590

00:40:32,000 --> 00:40:37,000

Grant buckles up, Carrie revs up, and they both get fired up.

591

00:40:37,000 --> 00:40:39,000

It's now or never for this myth.

592

00:40:39,000 --> 00:40:41,000

This is the one.

593

00:40:45,000 --> 00:40:47,000

What happened?

594

00:40:47,000 --> 00:40:50,000

I think we have a result here, you guys.

595

00:40:52,000 --> 00:40:54,000

Curses foiled again.

596

00:40:54,000 --> 00:40:57,000

The myth-mobile still couldn't make the turn.

597

00:40:57,000 --> 00:41:01,000

It left the road and careered into peak hour pedestrians.

598

00:41:01,000 --> 00:41:04,000

Not a good look for a superhero.

599

00:41:04,000 --> 00:41:08,000

The entire car just jerked really, really hard to the left and then let go.

600

00:41:08,000 --> 00:41:13,000

As the steel cable jerked tight, it broke not once, but twice.

601

00:41:13,000 --> 00:41:15,000

At the hook and the car.

602

00:41:15,000 --> 00:41:21,000

Despite its immense breaking strength, it snapped as if it were cotton twine.

603

00:41:22,000 --> 00:41:26,000

This is where the hook was connected to the cable, and it totally shredded.

604

00:41:26,000 --> 00:41:28,000

I mean, it's just not strong enough.

605

00:41:28,000 --> 00:41:30,000

This cable is not strong enough.

606

00:41:30,000 --> 00:41:32,000

This one's looking busted.

607

00:41:32,000 --> 00:41:35,000

This myth needs a cable that just doesn't exist.

608

00:41:35,000 --> 00:41:40,000

One that's lightweight so it can be fired, flexible so that it can wrap,

609

00:41:40,000 --> 00:41:44,000

yet immensely strong to withstand the massive force.

610

00:41:45,000 --> 00:41:49,000

Looks like this superhero myth will be confined to the comics.

611

00:41:54,000 --> 00:41:57,000

Okay, team myth-busters, how did we do on the superhero myth?



612

00:41:57,000 --> 00:41:58,000

The phantoms ring.

613

00:41:58,000 --> 00:41:59,000

Busted.

614

00:41:59,000 --> 00:42:01,000

We actually crushed the skull before we could leave a mark.

615

00:42:01,000 --> 00:42:04,000

Which, the grappling gun, Jamie.

616

00:42:04,000 --> 00:42:09,000

Well, the cable shooter didn't work so well, but the ascender worked pretty good.

617

00:42:09,000 --> 00:42:11,000

Even if it was a little bit for the belt.

618

00:42:11,000 --> 00:42:14,000

Alright, and finally, the myth-mobile-mounted grappling cannon.

619

00:42:14,000 --> 00:42:16,000

I think we really nailed this one.

620

00:42:16,000 --> 00:42:21,000

Our cannon worked perfectly, we hooked our target, but we broke every cable we could find.

621

00:42:21,000 --> 00:42:22,000

Yep, this one busted.

622

00:42:22,000 --> 00:42:25,000

Well, sounds like we did some good work out there, myth-busters.

623

00:42:25,000 --> 00:42:27,000

Now let's get out and fight some crime!

624

00:42:33,000 --> 00:42:35,000

I loved doing superhero myths, that was fun.

625

00:42:35,000 --> 00:42:36,000

Yeah, it was.

626

00:42:36,000 --> 00:42:38,000

Even if I almost broke my hand on that force meter.

627

00:42:38,000 --> 00:42:39,000

Are you still swollen?

628

00:42:39,000 --> 00:42:40,000

Yeah, it's a little messed up.

629

00:42:40,000 --> 00:42:41,000

God.

630

00:42:41,000 --> 00:42:45,000

And we found out it only takes you 30 seconds to change into your super suit to save the world.

631

00:42:45,000 --> 00:42:50,000

I think I need all the extra time I can get considering I'm saving the world in 4-inch heels.

632

00:42:50,000 --> 00:42:54,000

Those superhero myths were a great idea, and if you have any ideas, go to [Discovery.com](http://Discovery.com)

633

00:42:54,000 --> 00:42:57,000

slash MythBusters and give us your suggestions.

634

00:43:08,000 --> 00:43:10,000

So find out if you get it.

635

00:43:10,000 --> 00:43:11,000

And if you don't, get it.

636

00:43:11,000 --> 00:43:12,000

That was good.

637

00:43:12,000 --> 00:43:13,000

Yeah.

638

00:43:13,000 --> 00:43:14,000

Yeah, we should do this for a little.