

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 --> 00:00:37,000

It's surely built a particle accelerator from old underpants and chewing gum is finally being put to the test.

3

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

We're restaging the stunts everyone took for granted back in the 80s.

4

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

Like blowing a hole in a wall with just one gram of pure sodium.

5

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

This is for love, money and science.

6

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

We'll build and try to fly a full scale bamboo airplane to see if MacGyver really could have flown an injured hostage to safety.

7

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

Here it comes!

8

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

Then Jamie and Adam face the ultimate Mac challenge.

9

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

Blindfolded.

10

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

Be smart boys, don't try to escape.

11

00:01:08,000 --> 00:01:18,000

It's a four part battle of wits between our boys, the clock, two hysterical henchmen and the TV legend that is MacGyver.

12

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

Who are the Mythbusters?

13

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

Adam Savage.

14

00:01:27,000 --> 00:01:29,000

Smells like science.

15

00:01:29,000 --> 00:01:31,000

And Jamie Heineman.

16

00:01:31,000 --> 00:01:35,000

Between them more than 30 years of special effects experience.

17

00:01:35,000 --> 00:01:37,000

Arise my son.

18

00:01:37,000 --> 00:01:40,000

Joining them, Grant Imahara.

19

00:01:40,000 --> 00:01:41,000

Warning, warning.

20

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

Tori Belichi.

21

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

This seems like a really stupid idea.

22

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

And Carrie Byron.

23

00:01:46,000 --> 00:01:48,000

That is messed up!

24

00:01:48,000 --> 00:01:50,000

They don't just tell the Myths.

25

00:01:50,000 --> 00:01:52,000

Wow, I can feel the pressure.

26

00:01:52,000 --> 00:01:55,000

They put them to the test.

27

00:01:57,000 --> 00:02:10,000

The moment is finally here.

28

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

Indeed it is.

29

00:02:11,000 --> 00:02:13,000

It's the Mythbusters MacGyver special.

30

00:02:13,000 --> 00:02:22,000

It's time to take the antics of one Angus MacGyver, place him under the Mythbusters microscope and separate fact from fiction.

31

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

Are you ready?

32

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

The fans beg for it.

33

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

So we're doing it.

34

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

Mac versus the Mythbusters.

35

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

He's one of the boys' all-time heroes.

36

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

But there comes a time when the student must challenge the master.

37

00:02:42,000 --> 00:02:44,000

Ask me why I'm swinging this bottle around.

38

00:02:44,000 --> 00:02:46,000

Okay, why are you swinging this bottle around?

39

00:02:46,000 --> 00:02:52,000

This has to do with the very first McGyver myth we're actually testing, which we're calling sodium jailbreak.

40

00:02:53,000 --> 00:02:58,000

In this episode, Mac needs a hole in a wall in a hurry.

41

00:02:58,000 --> 00:03:07,000

Knowing that alkaline metals react violently with water, he packs pure sodium inside a gel cap and drops it in a bottle filled with water.

42

00:03:07,000 --> 00:03:15,000

The capsule works like a fuse, but the time it dissolves, Mac and his special new friend have time to duck and cover.

43

00:03:15,000 --> 00:03:20,000

It's all very clever, but would it really work?

44

00:03:21,000 --> 00:03:27,000

Just to be safe, they wheel in a mobile see-through laboratory for the small-scale tests.

45

00:03:27,000 --> 00:03:30,000

Well, I pulled out the birds in a truck.

46

00:03:30,000 --> 00:03:33,000

When Scott's a whole clear side, I'm going to park that outside Jamie's shop.

47

00:03:33,000 --> 00:03:40,000

With Jamie's scouting locations for the full-scale test, Torey volunteers to help Adam build the test rig.

48

00:03:40,000 --> 00:03:47,000

With a pulley, a weight, a bowl of water, and a glass vial of metal sodium,

49

00:03:47,000 --> 00:03:52,000

Adam hopes to test the explosive potential without bringing the house down.

50

00:03:52,000 --> 00:03:56,000

They're using an open bowl of water, not a sealed bottle.

51

00:03:56,000 --> 00:04:01,000

So if there's any truth to this at all, we should get the show without the shrapnel.

52

00:04:01,000 --> 00:04:07,000

I'll cut that string, break the glass, put the sodium in, release it into the water, and show us what happens.

53

00:04:07,000 --> 00:04:12,000

Pure sodium is so volatile, it could even react with moisture in the air.

54

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

So, better safe than singed.

55

00:04:18,000 --> 00:04:23,000

That's why I am so well protected from any kind of splashback, toxicity, anything.

56

00:04:23,000 --> 00:04:26,000

Nothing can get inside my suit and leave the face shield on.

57

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

I think I'm properly protected.

58

00:04:29,000 --> 00:04:34,000

Giant Banana Number Two reduces the risk by painting the tray with mineral oil.

59

00:04:34,000 --> 00:04:40,000

This gasoline byproduct stops alkali metals from reacting with atmospheric water.

60

00:04:40,000 --> 00:04:43,000

Kind of like a cooking show, except for the kill ya.

61

00:04:44,000 --> 00:04:47,000

Okay, so now it's sitting on the mineral oil.

62

00:04:47,000 --> 00:04:50,000

Everyone eyes open, this is for real. It's scary.

63

00:04:50,000 --> 00:04:53,000

The sodium metal cuts just like butter.

64

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

Look at that!

65

00:04:55,000 --> 00:04:57,000

That is far out.

66

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

So that, wow, my gosh.

67

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

That's just metal.

68

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

Two small slices make one thin gram, and that's exactly what MacGyver used to blow a hole in a wall.

69

00:05:07,000 --> 00:05:11,000

One gram of sodium, it looks so innocuous.

70

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

It's part of table salt for crying out loud.

71

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

Good luck. I'll see you at the shield.

72

00:05:16,000 --> 00:05:17,000

Be careful.

73

00:05:17,000 --> 00:05:20,000

Hey, Adam's middle name is Careful.

74

00:05:20,000 --> 00:05:22,000

Then again, his last name is...

75

00:05:22,000 --> 00:05:24,000

Well, let's get on with it.

76

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

They'll do this test twice, first with the vial sitting on top of the water.

77

00:05:30,000 --> 00:05:35,000

So this is sodium surface test in three, two, one.

78

00:05:35,000 --> 00:05:36,000

One.

79

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

Wah, wah.

80

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

No, no, it's gonna take a second.

81

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

Yep.

82

00:05:44,000 --> 00:05:46,000

That was cool.

83

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

It wasn't a single reaction.

84

00:05:50,000 --> 00:05:58,000

It was like a pow, pow, pow, which actually lends credence to the MacGyver clip in which there are two banks, not just one.

85

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

But will this bonsai 4th of July ever be big enough to blow a man-sized hole through solid masonry?

86

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

The boys repeat the test with a sodium vial immersed in water.

87

00:06:10,000 --> 00:06:16,000

From what I understand from the science, being under the water is probably gonna be less of a reaction than being on top of the water.

88

00:06:16,000 --> 00:06:18,000

Interesting.

89

00:06:18,000 --> 00:06:20,000

Alright, let's find out.

90

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

This is sodium underwater.

91

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

And three, two, one.

92

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

That looks like it worked.

93

00:06:28,000 --> 00:06:29,000

Yeah.

94

00:06:29,000 --> 00:06:31,000

Whoa!

95

00:06:31,000 --> 00:06:32,000

That was a bigger one.

96

00:06:32,000 --> 00:06:33,000

Yeah.

97

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

You have to wonder if Adam ever gets tired of being wrong.

98

00:06:38,000 --> 00:06:44,000

MacGyver got it right, and that's a good enough result for Jamie to call in the contractors.

99

00:06:44,000 --> 00:06:46,000

Okay, you guys gonna build a wall.

100

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

We're gonna blow it up and do a good job anyway.

101

00:06:48,000 --> 00:06:49,000

Let's go.

102

00:06:50,000 --> 00:06:58,000

The scenery goes up in short time, and the stagehands await the stars' brown carpet entrance.

103

00:06:58,000 --> 00:07:05,000

Today, the part of MacGyver will be played by Buster, once Jamie's made him decent.

104

00:07:05,000 --> 00:07:08,000

But pants don't always make the man.

105

00:07:08,000 --> 00:07:11,000

In this case, it's all about the hair.

106

00:07:11,000 --> 00:07:14,000

That doesn't look like MacGyver with a mustache on it.

107

00:07:14,000 --> 00:07:16,000

It looks a little like you.

108

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

Okay, now he buried the jar in the sand, right?

109

00:07:19,000 --> 00:07:23,000

Yeah, but it was, he kind of like, he did this, and then he did this.

110

00:07:23,000 --> 00:07:24,000

Okay.

111

00:07:24,000 --> 00:07:25,000

That kind of thing.

112

00:07:25,000 --> 00:07:28,000

So we just need a couple more bags that are cut open to make this look kind of good.

113

00:07:28,000 --> 00:07:33,000

They've replicated the scene as best they can, but Adam's added a magnet to the trigger,

114

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

so the boys can be sure they're safe behind the blast screen.

115

00:07:37,000 --> 00:07:41,000

I put a little tiny bit of metal that will be in this pill in addition to the sodium.

116

00:07:41,000 --> 00:07:45,000

It's actually ferrous, which means it will be magnetized.

117

00:07:45,000 --> 00:07:49,000

I'll prep the sodium like this, I'll fill the bottle with water.

118

00:07:49,000 --> 00:07:56,000

When we're just about ready to go, I will carefully, ever so carefully, screw this down on top,

119

00:07:56,000 --> 00:08:01,000

retreat to behind the safety shield, then pull the magnet off the screw cap,

120

00:08:01,000 --> 00:08:07,000

dropping the pill in the water, and hopefully proving you can trust everything you see on TV.

121

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

Next up, Carrie Grant and Tori try to emulate one of Max's most ambitious ever builds.

122

00:08:14,000 --> 00:08:16,000

The guy over there is going to be so proud of us.

123

00:08:16,000 --> 00:08:20,000

And they learned firsthand it's a long drop if they get it wrong.

124

00:08:20,000 --> 00:08:22,000

Oh.

125

00:08:34,000 --> 00:08:35,000

Picture this.

126

00:08:35,000 --> 00:08:39,000

Max G is stuck on a Colombian building site. Bad guys are approaching faster.

127

00:08:39,000 --> 00:08:44,000

He has to escape. What does he do? The only things around him, bamboo, duct tape, garbage bags, cement mixer.

128

00:08:44,000 --> 00:08:46,000

What, no cars?

129

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

Conveniently no cars.

130

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

Alright, so what does he do?

131

00:08:49,000 --> 00:08:51,000

He builds an ultra light.

132

00:08:53,000 --> 00:08:58,000

Given the right materials, there's almost no end to McGyver's ingenuity.

133

00:08:58,000 --> 00:08:59,000

You're doing good.

134

00:08:59,000 --> 00:09:04,000

Imprisoned and surrounded, there's just one way to get the guy with a broken leg to freedom.

135

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

Scratch build a two-man airplane.

136

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

What do you mean, fly?

137

00:09:16,000 --> 00:09:18,000

What do you mean, fly?

138

00:09:18,000 --> 00:09:20,000

A car.

139

00:09:20,000 --> 00:09:25,000

They've seen how Max did it, but it's worth giving some real ultralights the once over.

140

00:09:25,000 --> 00:09:31,000

I'm not sure if we have the right stuff. I just hope we don't have the wrong stuff.

141

00:09:31,000 --> 00:09:37,000

Please take a moment to locate your emergency exits, keeping in mind that the emergency exits may be behind you.

142

00:09:37,000 --> 00:09:43,000

Even by one, Carrie, Grant, Tori, and their instructor pilots take to the air.

143

00:09:48,000 --> 00:09:54,000

Even by Mythbusters lofty standards, this is the thrill of a lifetime.

144

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

I'm not sure how easy it is to be able to do it, but I wouldn't have a job, would I?

145

00:10:01,000 --> 00:10:03,000

You've got a point there.

146

00:10:04,000 --> 00:10:06,000

But it's not just about the pilot.

147

00:10:06,000 --> 00:10:11,000

These frames are made from high-grade aluminum, not bamboo.

148

00:10:11,000 --> 00:10:15,000

The wings are made from nylon, not trash bags.

149

00:10:15,000 --> 00:10:21,000

And the engines are rated as high-end aluminum, not bamboo.

150

00:10:21,000 --> 00:10:23,000

Not trash bags.

151

00:10:23,000 --> 00:10:31,000

And the engines are rated at 65 horsepower, seven times more powerful than the motor Max swiped from a cement mixer.

152

00:10:31,000 --> 00:10:33,000

Oh my God.

153

00:10:33,000 --> 00:10:36,000

Are they scared yet? You betcha.

154

00:10:37,000 --> 00:10:39,000

That is cool.

155

00:10:42,000 --> 00:10:45,000

Three perfect three-point landings.

156

00:10:45,000 --> 00:10:47,000

Oh my God.

157

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

So this is as good as it gets.

158

00:10:49,000 --> 00:10:57,000

Our intrepid co-pilots can bet all their frequent flyer points that their MacGyver knockoff won't be quite so reliable.

159

00:10:57,000 --> 00:11:03,000

I think if I've learned anything today, it's that this is a very masterful piece of equipment.

160

00:11:03,000 --> 00:11:07,000

And I don't know if I can build something in four hours that's going to do the same thing.

161

00:11:07,000 --> 00:11:14,000

There's no way anyone can build a full-size working airplane in four hours, or like four days.

162

00:11:14,000 --> 00:11:19,000

Still, the Mythbusters have all they need to build this baby MacGyver style.

163

00:11:19,000 --> 00:11:23,000

I don't know if this thing is going to fly, but it's definitely going to stay together.

164

00:11:23,000 --> 00:11:25,000

I think we start building everything out of bamboo and duct tape.

165

00:11:25,000 --> 00:11:33,000

Carrie's concerned that MacGyver's wings look too flat, not the classic airfoil shape that makes powered flight possible.

166

00:11:33,000 --> 00:11:37,000

She's also worried about the sheer size of Max's rear end.

167

00:11:37,000 --> 00:11:43,000

Everything I'm building is completely based on the measurements that MacGyver calls out.

168

00:11:43,000 --> 00:11:52,000

9x6 tail pieces look ridiculous, so in the spirit of MacGyverism and to make this really work and give this any chance of flying,

169

00:11:52,000 --> 00:11:57,000

I'm going to slightly tweak the dimensions and make them proportional to an actual ultralight.

170

00:11:57,000 --> 00:12:04,000

Meantime, Grantz found himself a puny 9-horsepower cement mixer engine, just like the one Mac used.

171

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

And fitted a wooden propeller.

172

00:12:09,000 --> 00:12:16,000

At the very least, this mini motor needs to be strong enough to push the plane along the ground towards the cliff,

173

00:12:16,000 --> 00:12:18,000

but Mac faced the same problem.

174

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

The cement mixer engine was too small to get him airborne, but once the plane dropped off the cliff, it did sustain flight.

175

00:12:28,000 --> 00:12:34,000

It's an added incentive to make sure this trash bag tricycle can at least glide to safety,

176

00:12:34,000 --> 00:12:37,000

and so far, it all seems to be working.

177

00:12:37,000 --> 00:12:43,000

The tape and wire connections are holding fast, and the moving parts are, well, moving.

178

00:12:43,000 --> 00:12:50,000

I was a little unsure about the whole bamboo and duct tape construction, but after putting some of this together and seeing how sturdy it is,

179

00:12:50,000 --> 00:12:54,000

I'm feeling like it's going to be strong enough to hold up those wings.

180

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

But will the wings work?

181

00:12:56,000 --> 00:12:57,000

Ta-da!

182

00:12:57,000 --> 00:12:59,000

Perfect. Beautiful. I love it. It's going to work.

183

00:12:59,000 --> 00:13:06,000

Carrie's been some skinny bamboo to make an airfoil, but now she's had a crisis of confidence.

184

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

Call it Builder's Remorse.

185

00:13:08,000 --> 00:13:15,000

I have a feeling this thing is going to plummet to the ground like a rock.

186

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

I went from totally optimistic to a little sketchy.

187

00:13:19,000 --> 00:13:24,000

Tori's confident enough to set that front barrel wheel on the frame.

188

00:13:24,000 --> 00:13:25,000

Okay, now.

189

00:13:25,000 --> 00:13:32,000

While Carrie begins the long and laborious task of taping all that plastic to the bamboo frame.

190

00:13:33,000 --> 00:13:36,000

Finally, Tori bolts on the tiny engine.

191

00:13:36,000 --> 00:13:37,000

Perfect.

192

00:13:37,000 --> 00:13:41,000

The build has taken three and a bit days, not four hours.

193

00:13:41,000 --> 00:13:46,000

So that's one part of this MacGyver myth well and truly busted.

194

00:13:48,000 --> 00:13:54,000

Then there's that awkward pause when someone really should offer to fly the darn thing.

195

00:13:54,000 --> 00:13:56,000

No one does, and you can't blame them.

196

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

So Grant rigs up an RC unit.

197

00:14:02,000 --> 00:14:08,000

MacGyver was using his feet to steer the rudder, but since none of us are going to be able to fly it,

198

00:14:08,000 --> 00:14:10,000

I've got this radio control system here.

199

00:14:10,000 --> 00:14:12,000

And so I move the stick.

200

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

It moves the servo and these lines pull on the rudder, moving that back and forth.

201

00:14:18,000 --> 00:14:21,000

This is a rare moment in Mythbusters history.

202

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

The whole build has gone off without a hitch.

203

00:14:24,000 --> 00:14:26,000

It's not that heavy.

204

00:14:26,000 --> 00:14:27,000

It's not breaking.

205

00:14:27,000 --> 00:14:28,000

That's good.

206

00:14:28,000 --> 00:14:31,000

Now all they have to do is make it fly.

207

00:14:31,000 --> 00:14:33,000

MacGyver is going to be so proud of us.

208

00:14:33,000 --> 00:14:38,000

Coming up, Adam and Jamie test their sodium explosive on the bomb range.

209

00:14:38,000 --> 00:14:39,000

I think the wall might be gone.

210

00:14:39,000 --> 00:14:43,000

And you can bet they won't be leaving until they're knee deep in rubble.

211

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

Adam and Jamie are testing an explosive MacGyver myth.

212

00:14:58,000 --> 00:15:05,000

That one gram of reactive sodium metal packed in a pill and dropped in water could blow through a wall.

213

00:15:06,000 --> 00:15:09,000

One, three, two, one.

214

00:15:09,000 --> 00:15:16,000

They huddle behind the blast shield, waiting for that gel cap to dissolve so the sodium hits the H₂O.

215

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

In less than a minute we should see something.

216

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

Fifty seconds.

217

00:15:20,000 --> 00:15:22,000

It should happen any second now.

218

00:15:24,000 --> 00:15:25,000

Isn't it always like this?

219

00:15:25,000 --> 00:15:26,000

Hundred and ten.

220

00:15:26,000 --> 00:15:29,000

So what are we going to do if it doesn't blow up?

221

00:15:29,000 --> 00:15:34,000

I say we, you know, wait the requisite twenty minutes and then approach it very cautiously.

222

00:15:34,000 --> 00:15:37,000

After half an hour, there's nothing doing.

223

00:15:37,000 --> 00:15:39,000

You're trying to take your arm here.

224

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

So Jamie rents out the latest in this season's line of bomb suits.

225

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

I feel like I'm ready to go out clubbing.

226

00:15:49,000 --> 00:15:55,000

One small step for a man, one giant chance for Adam to sully the moment.

227

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

It's not dissimilar from how Jamie was dressed when he first came to Earth.

228

00:15:59,000 --> 00:16:04,000

Odds are the reaction has occurred, but wasn't strong enough to break the bottle.

229

00:16:06,000 --> 00:16:11,000

Adam's already run some time trials to see just how long it takes a cap to dissolve in water.

230

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

He filled this one with red pepper.

231

00:16:14,000 --> 00:16:18,000

What we found on the show is that one of the most dangerous things that can happen is nothing.

232

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

And nothing is exactly what happened.

233

00:16:22,000 --> 00:16:27,000

We're at almost half an hour and my gel cap still has not dissolved.

234

00:16:27,000 --> 00:16:30,000

That's going to be a long time for us to wait out on the site.

235

00:16:30,000 --> 00:16:33,000

So I'm going to try a second bottle full of hot tap water.

236

00:16:33,000 --> 00:16:39,000

And that did the trick. Just 90 seconds later, catastrophic capsule failure.

237

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

It's just about to fail. There it goes.

238

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

They also used hot water on the bomb site.

239

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

So surely Jamie's in no danger from a delayed reaction.

240

00:16:51,000 --> 00:16:57,000

Still, best policy is a quick prod with a hazmat-approved poking broom.

241

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

It's not long before Adam gets the all clear.

242

00:17:01,000 --> 00:17:05,000

Well, it certainly looks like some reaction has happened and I don't see any sodium.

243

00:17:05,000 --> 00:17:09,000

And we put it in there so the reaction happened without breaking the bottle.

244

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

Sadly, this is just what they predicted.

245

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

We saw a reaction in the lab and it looks good,

246

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

but a lot of times a little smoke, a little pop, or a little poof is, you know, it's more bark than bite.

247

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

Sorry, Mac, but one gram of pure sodium won't blow a hole through toilet paper.

248

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

And we've still got a wall to destroy.

249

00:17:32,000 --> 00:17:33,000

So what are we doing?

250

00:17:33,000 --> 00:17:35,000

Well, we're going to try and blow another hole in the wall,

251

00:17:35,000 --> 00:17:38,000

except I'm going to use a lot more sodium and a much bigger pill.

252

00:17:38,000 --> 00:17:40,000

What is that for a horse?

253

00:17:40,000 --> 00:17:42,000

It is, in fact, for a horse.

254

00:17:42,000 --> 00:17:47,000

Adam packs his horse pill with 100 grams of sodium metal.

255

00:17:47,000 --> 00:17:48,000

It's a lot of sodium.

256

00:17:48,000 --> 00:17:54,000

If there's any truth to the TV myth, this should settle things once and for all.

257

00:17:54,000 --> 00:17:59,000

It's a dangerous amount of sodium to put in water, so I'm expecting big things from this.

258

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

Aren't we all?

259

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

And?

260

00:18:01,000 --> 00:18:02,000

Two, one.

261

00:18:03,000 --> 00:18:05,000

I hate this. Nothing's happening.

262

00:18:05,000 --> 00:18:11,000

Four and a half minutes later, the pill finally pops.

263

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

The point of failure was, of course, the wind.

264

00:18:15,000 --> 00:18:16,000

Whoa!

265

00:18:16,000 --> 00:18:17,000

Two explosions.

266

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

Still barely enough to uncap the bottle.

267

00:18:21,000 --> 00:18:24,000

Look, that's what's left of the gelatin capsule.

268

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

That was an explosion, but this is not a high explosive.

269

00:18:28,000 --> 00:18:34,000

But Adam and Tori pre-tested another alkaline metal that's even more volatile than sodium.

270

00:18:34,000 --> 00:18:36,000

It's called potassium.

271

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

And three, two, one.

272

00:18:40,000 --> 00:18:42,000

Hey, that was a good one.

273

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

Still going.

274

00:18:44,000 --> 00:18:45,000

Whoa!

275

00:18:45,000 --> 00:18:46,000

Yeah!

276

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

That was the best one so far.

277

00:18:48,000 --> 00:18:52,000

Potassium definitely gives up bigger bang than sodium.

278

00:18:52,000 --> 00:18:55,000

So how can we resist a field test?

279

00:18:55,000 --> 00:19:04,000

And our plan is to introduce potassium, which is far more reactive than sodium, into water in a metal pipe.

280

00:19:04,000 --> 00:19:05,000

Boom!

281

00:19:05,000 --> 00:19:10,000

When we did the thing with sodium, we used a chunk about the size of my thumb.

282

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

This time we're going to be using a bunch of potassium, about this much.

283

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

That's 500 grams of pure potassium.

284

00:19:18,000 --> 00:19:23,000

The MacMeth was one gram of less reactive sodium.

285

00:19:23,000 --> 00:19:29,000

Now he's pushing the mortar up against the wall so that the only place the energy can go is right at that wall.

286

00:19:29,000 --> 00:19:32,000

But Giver never had it so good.

287

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

This is for love, money and science, 500 grams of potassium.

288

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

Three, two, one.

289

00:19:41,000 --> 00:19:42,000

Wow!

290

00:19:42,000 --> 00:19:44,000

Well that didn't make us wait.

291

00:19:44,000 --> 00:19:49,000

It's a great show, but the wall hasn't budged.

292

00:19:49,000 --> 00:19:56,000

MacGyver, my brother, my compadre, we have to take him down on this one.

293

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

We've sidestepped this result for far too long.

294

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

It's absolutely positively busted.

295

00:20:03,000 --> 00:20:07,000

But Jamie and Adam still have a wall to bring down.

296

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

We came here to get a hole in the wall and darn it, we're going to get a hole in the wall.

297

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

When in doubt, see four.

298

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

The great thing about working with JD is that when we said we want a hole in the wall, all he says is, how big?

299

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

JD rolls out the wire and sets the charge.

300

00:20:25,000 --> 00:20:27,000

This is how you unbuild a wall.

301

00:20:27,000 --> 00:20:29,000

Three, two, one.

302

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

Oh, I don't want a wall.

303

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

I think the wall might be gone.

304

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

Sorry about that.

305

00:20:42,000 --> 00:20:47,000

The wall is rubble, but Buster MacGyver is still sitting pretty.

306

00:20:47,000 --> 00:20:50,000

It knocked MacGyver's mullet right off his head.

307

00:20:50,000 --> 00:20:51,000

But not the stash.

308

00:20:51,000 --> 00:20:54,000

It's pretty definitive what it takes to get through a wall.

309

00:20:56,000 --> 00:20:59,000

And the Alkaline Metals just ain't it.

310

00:20:59,000 --> 00:21:01,000

So, how did MacGyver do?

311

00:21:01,000 --> 00:21:06,000

Well, I'll tell you what I love about him is that his basic premise that Alkaline Metals are reacting with water is sound.

312

00:21:06,000 --> 00:21:10,000

Yeah, but the idea that you can use them to blow a hole in the wall?

313

00:21:10,000 --> 00:21:11,000

Totally busted.

314

00:21:11,000 --> 00:21:13,000

Busted. Busted.

315

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

Busted.

316

00:21:47,000 --> 00:21:51,000

Bamboo bowing soar like an eagle or a drop like a dodo.

317

00:21:58,000 --> 00:22:05,000

In this our 100th episode, Tori, Carrie and Grant have finished one of the great backyard builds of all time.

318

00:22:05,000 --> 00:22:07,000

They've made their own airplane.

319

00:22:07,000 --> 00:22:10,000

It's not flying economy anymore.

320

00:22:10,000 --> 00:22:14,000

In tribute to Kindred Spirit and Gis MacGyver.

321

00:22:18,000 --> 00:22:26,000

Now they need a place to launch it and Tiker'd aggregates has graciously supplied the runway and the cliff.

322

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

This is a working quarry.

323

00:22:28,000 --> 00:22:33,000

A quarry that has one perfectly perilous 150 foot drop.

324

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

I am elated.

325

00:22:35,000 --> 00:22:39,000

I cannot believe we found such a perfect location.

326

00:22:39,000 --> 00:22:44,000

A flat road to a sheer drop off just like in the MacGyver clip.

327

00:22:44,000 --> 00:22:49,000

So excited to finally do this myth. This is my new favorite myth to do.

328

00:22:49,000 --> 00:22:55,000

So they're almost ready to push this thing off a cliff as high as a 15 story building.

329

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

MacGyver would be proud as punch.

330

00:22:57,000 --> 00:23:02,000

Welcome to Mythbusters. We are proud to say that we have a 100% crash rate.

331

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

I'm sure you remember Brace Position.

332

00:23:07,000 --> 00:23:09,000

I'm scarred for life.

333

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

Then we had jet taxi where a small aircraft got blown by 747 engine,

334

00:23:13,000 --> 00:23:16,000

100 feet down a runway and over end.

335

00:23:16,000 --> 00:23:21,000

This might be the first Mythbust Air safe landing.

336

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

Or it might not.

337

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

Okay, we all know that history is often more instructive than inspirational.

338

00:23:31,000 --> 00:23:34,000

And that prompts Grant to one last try.

339

00:23:34,000 --> 00:23:35,000

Where the seat belts?

340

00:23:35,000 --> 00:23:41,000

With Carrie and Tori as human ballast, he'll test the engine one more time.

341

00:23:41,000 --> 00:23:44,000

Grant checks his remote responses.

342

00:23:44,000 --> 00:23:47,000

The Guyver to Tower. Are we free for takeoff?

343

00:23:47,000 --> 00:23:48,000

Clear front.

344

00:23:48,000 --> 00:23:49,000

We're gonna die.

345

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

Hold on tight. This could be really good or really, really bad.

346

00:23:53,000 --> 00:23:58,000

It's highly unlikely they'll take off, but they are ready to roll.

347

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

We're moving. We're moving.

348

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

I know.

349

00:24:01,000 --> 00:24:02,000

It's working.

350

00:24:03,000 --> 00:24:06,000

12 seconds later, Grant cuts the engine.

351

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

It's a total success.

352

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

What did you do?

353

00:24:14,000 --> 00:24:16,000

We weren't going fast enough to get lift.

354

00:24:16,000 --> 00:24:21,000

If we get going fast enough to get off that cliff, we might actually get flight.

355

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

Oh my god.

356

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

We look like we're in it.

357

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

We look like we're in it.

358

00:24:26,000 --> 00:24:27,000

They sure did.

359

00:24:27,000 --> 00:24:32,000

Now Buster and his partner in pain get taped into the cockpit.

360

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

There we go.

361

00:24:34,000 --> 00:24:35,000

Nice.

362

00:24:35,000 --> 00:24:38,000

We're just minutes away from the launch.

363

00:24:38,000 --> 00:24:42,000

Hopes are high, but predictions are predictably mixed.

364

00:24:42,000 --> 00:24:48,000

I actually think there is a fair chance that we'll be able to get some sort of sustained flight.

365

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

I think this thing is gonna go down the runway, get to the edge of the cliff, go off.

366

00:24:52,000 --> 00:24:55,000

But I'm afraid it's just gonna fall flat and crash.

367

00:24:55,000 --> 00:24:59,000

I have gone back and forth between it's gonna fly and it's not gonna fly.

368

00:24:59,000 --> 00:25:04,000

That's a definite maybe from Carrie at a fair assessment of their chances.

369

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

Tori starts the engine, removes the chocks and runs for cover.

370

00:25:09,000 --> 00:25:11,000

Run, run, run!

371

00:25:11,000 --> 00:25:19,000

Four days work and MacGyver's reputation will be junked or justified in the next five seconds.

372

00:25:26,000 --> 00:25:28,000

Whoa!

373

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

That was sick!

374

00:25:31,000 --> 00:25:33,000

It almost had flight!

375

00:25:33,000 --> 00:25:35,000

It went like this!

376

00:25:35,000 --> 00:25:37,000

It just wasn't fast enough.

377

00:25:37,000 --> 00:25:38,000

You know what though?

378

00:25:38,000 --> 00:25:40,000

That did way better than I thought it was gonna do.

379

00:25:40,000 --> 00:25:42,000

It actually kind of glided down until it crashed.

380

00:25:42,000 --> 00:25:45,000

If that's a glide, I'd hate to see a plummet.

381

00:25:45,000 --> 00:25:49,000

There was just enough power to keep the three wheels airborne.

382

00:25:49,000 --> 00:25:52,000

But the tail looked more like a vertical plow.

383

00:25:53,000 --> 00:25:59,000

On a brighter note, Max Passinger would have forgotten all about his broken leg.

384

00:25:59,000 --> 00:26:03,000

I think MacGyver and his bamboo ultralight is busted.

385

00:26:03,000 --> 00:26:05,000

Fairly but true.

386

00:26:05,000 --> 00:26:06,000

Busted.

387

00:26:06,000 --> 00:26:08,000

Who's gonna go get all that stuff?

388

00:26:09,000 --> 00:26:12,000

Well, you make the mess, you clean it up.

389

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

It's an ugly ending, but things could have been a whole lot worse.

390

00:26:18,000 --> 00:26:22,000

There were times when they all considered flying the plane themselves.

391

00:26:22,000 --> 00:26:25,000

Good news, I found the black box.

392

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

It says we crashed.

393

00:26:27,000 --> 00:26:32,000

But Carrie's determined to serve this disaster sunny side up.

394

00:26:32,000 --> 00:26:34,000

The wings didn't fall apart.

395

00:26:34,000 --> 00:26:36,000

The frame basically stayed together.

396

00:26:36,000 --> 00:26:38,000

All the elements worked.

397

00:26:38,000 --> 00:26:41,000

It's just it wasn't meant to fly.

398

00:26:41,000 --> 00:26:44,000

So true and so so busted.

399

00:26:48,000 --> 00:26:52,000

Still to come, Jamie and Adam face the MacGyver challenge.

400

00:26:52,000 --> 00:26:54,000

Wish I remembered high school chemistry.

401

00:26:54,000 --> 00:26:59,000

It's fast, furious and frustrating as hell.

402

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

Make it up, Brian!

403

00:27:14,000 --> 00:27:16,000

See, what are we looking at?

404

00:27:16,000 --> 00:27:21,000

Well, the other team sent us this disc and said we have to watch it.

405

00:27:22,000 --> 00:27:23,000

Okay.

406

00:27:24,000 --> 00:27:28,000

Alright, Jamie and Adam, we've come up with a few challenges for you two to do

407

00:27:28,000 --> 00:27:30,000

to see if you guys are undercover MacGyver's.

408

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

You're gonna need all of your ingenuity and experience for this one.

409

00:27:34,000 --> 00:27:36,000

And we're not gonna tell you the challenges.

410

00:27:36,000 --> 00:27:38,000

That's right, because MacGyver never knew the challenges either.

411

00:27:38,000 --> 00:27:42,000

So, all you get to do is think on your feet and use whatever you have around you.

412

00:27:42,000 --> 00:27:43,000

Because that's what MacGyver does.

413

00:27:43,000 --> 00:27:44,000

Works for me.

414

00:27:44,000 --> 00:27:47,000

This time, the Mythbusters roles are reversed.

415

00:27:47,000 --> 00:27:50,000

They won't contest the myths, they'll defend them.

416

00:27:50,000 --> 00:27:54,000

Reaching deep inside to find their inner MacGyver.

417

00:27:54,000 --> 00:27:58,000

It's a cunning, four-tier challenge that begins with a breakout

418

00:27:58,000 --> 00:28:04,000

and ends, hopefully, with a helicopter rescue from this makeshift enemy campsite.

419

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

But the villains aren't home right now.

420

00:28:06,000 --> 00:28:10,000

They're building the jail that Adam and Jamie have to escape from.

421

00:28:10,000 --> 00:28:13,000

Now, I voted for the island with the volcano in the middle,

422

00:28:13,000 --> 00:28:16,000

but apparently, that was too expensive.

423

00:28:16,000 --> 00:28:17,000

No kidding.

424

00:28:17,000 --> 00:28:21,000

But this two-room prefab prison is very MacGyver.

425

00:28:21,000 --> 00:28:25,000

Now, you can have your own evil lair in a matter of hours

426

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

with our instant evil lair kit.

427

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

It's so easy.

428

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

And the first challenge is to get from room one to room two.

429

00:28:33,000 --> 00:28:36,000

Now, what MacGyver did was smash the light bulbs

430

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

and use the filaments to pick the lock.

431

00:28:39,000 --> 00:28:43,000

He did it in 52 seconds, we're giving the boys one hour.

432

00:28:43,000 --> 00:28:45,000

Who do you think you're messing with, huh?

433

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

Yeah.

434

00:28:46,000 --> 00:28:48,000

Couple of amateurs.

435

00:28:48,000 --> 00:28:51,000

Be smart, boys. Don't try to escape.

436

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

Lock the door, okay?

437

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

With cameras and walkie-talkies in place,

438

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

Tori and Grant call the shots from their bad guy vans.

439

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

You have one hour to get out of the room.

440

00:29:11,000 --> 00:29:12,000

Oh, good rope tying.

441

00:29:12,000 --> 00:29:13,000

Shut up.

442

00:29:13,000 --> 00:29:15,000

Well, let's see what we got.

443

00:29:15,000 --> 00:29:18,000

And there's worse news to come for the villains in the van.

444

00:29:18,000 --> 00:29:23,000

It's taken Jamie two seconds flat to get his first bright idea.

445

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

You've got to use the filaments from these light bulbs to pick that lock.

446

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

The issue is going to be one of being able to actually insert this in

447

00:29:34,000 --> 00:29:36,000

and push up the pins.

448

00:29:36,000 --> 00:29:40,000

This wire is actually a little too fat, I think.

449

00:29:40,000 --> 00:29:43,000

You could use one boot against the other if you took your shoes off.

450

00:29:43,000 --> 00:29:45,000

Yes, that's true.

451

00:29:47,000 --> 00:29:48,000

Look at that.

452

00:29:48,000 --> 00:29:52,000

He's using the steel toe in his boot as a hammer and anvil to flatten the filament

453

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

so it'll fit into the keyhole.

454

00:29:54,000 --> 00:29:55,000

Mind if I take a stab at this?

455

00:29:55,000 --> 00:29:56,000

Go for it.

456

00:29:56,000 --> 00:30:00,000

Well, Adam's got the filaments and he has lock pick experience.

457

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

Should we just pump in the nerve gas now?

458

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

There's no need to play rough just yet.

459

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

Our two mock MacGyver's might well have remembered the light bulb stunned from TV.

460

00:30:10,000 --> 00:30:16,000

That doesn't necessarily make them smart and it sure doesn't mean they can pick this lock.

461

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

You want to give it a shot?

462

00:30:18,000 --> 00:30:21,000

After a few minutes, Adam hands over to Jamie.

463

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

Currently, they're at 12 minutes.

464

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

It took MacGyver 52 seconds.

465

00:30:27,000 --> 00:30:32,000

It seems that the filaments are a little bit too big to fit in the lock.

466

00:30:32,000 --> 00:30:37,000

Starting to get into the psychology of this lock.

467

00:30:37,000 --> 00:30:40,000

And this is one deeply troubled thornob.

468

00:30:40,000 --> 00:30:42,000

The doctors talk tactics.

469

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

Any of these tumblers have to go up or down, right?

470

00:30:46,000 --> 00:30:48,000

Everything has to go up. It's just a matter of how much.

471

00:30:48,000 --> 00:30:49,000

Oh, okay.

472

00:30:49,000 --> 00:30:53,000

They swap again, hoping Adam's misspent youth might finally put it back on.

473

00:30:53,000 --> 00:30:56,000

Adam's misspent youth might finally prove an asset.

474

00:30:56,000 --> 00:30:58,000

I like that they're tag teaming.

475

00:30:58,000 --> 00:31:01,000

When one gets tired, then the other one picks up.

476

00:31:01,000 --> 00:31:04,000

But time is fast running out.

477

00:31:04,000 --> 00:31:05,000

Ten minutes left.

478

00:31:05,000 --> 00:31:08,000

Tell you what, if I get it to turn, I'm kicking the door down.

479

00:31:08,000 --> 00:31:12,000

But it looks like Adam can afford to spare those steel caps.

480

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

I got it.

481

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

No way.

482

00:31:14,000 --> 00:31:19,000

That's a successful pick. Let's hope I'm turning it in the right direction.

483

00:31:19,000 --> 00:31:23,000

Way to go there, buddy.

484

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

Challenge number one, no challenge at all.

485

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

Now the second test, they have to develop a role of film with directions to the camp

486

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

with only orange juice and ammonia.

487

00:31:38,000 --> 00:31:40,000

Are they going to be able to do that?

488

00:31:40,000 --> 00:31:41,000

I highly doubt it.

489

00:31:41,000 --> 00:31:46,000

That's because there's so much more in this pre-ten pantry than just OJ and ammonia.

490

00:31:46,000 --> 00:31:52,000

The boys have to choose two common kitchen liquids that also work as film developers

491

00:31:52,000 --> 00:31:53,000

and fixers.

492

00:31:53,000 --> 00:31:56,000

They're welcome to drink the rest.

493

00:31:56,000 --> 00:31:58,000

That was out all night.

494

00:31:58,000 --> 00:32:01,000

How good is your film chemistry?

495

00:32:01,000 --> 00:32:04,000

Well, I see there's baking soda over there.

496

00:32:04,000 --> 00:32:05,000

We got some basic chemicals.

497

00:32:05,000 --> 00:32:07,000

We got something that's acidic.

498

00:32:07,000 --> 00:32:09,000

Look, he's going for the orange juice.

499

00:32:09,000 --> 00:32:10,000

We got ammonia.

500

00:32:10,000 --> 00:32:12,000

Yes, there's ammonia.

501

00:32:12,000 --> 00:32:14,000

Oh, he's already got the ammonia.

502

00:32:14,000 --> 00:32:16,000

And you know what?

503

00:32:16,000 --> 00:32:20,000

We're going to need a dark room and garbage bags.

504

00:32:20,000 --> 00:32:22,000

Garbage bags ought to do that.

505

00:32:22,000 --> 00:32:24,000

Oh, that was easy.

506

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

Why don't we just give them a dark room?

507

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

Because that would also be far too expensive and not nearly as much fun.

508

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

The question is, what's the chemistry of developing film?

509

00:32:36,000 --> 00:32:38,000

Now, here's a moment you'll want to save her.

510

00:32:38,000 --> 00:32:42,000

Turns out Adam once had a job as a film processor.

511

00:32:42,000 --> 00:32:43,000

I've used film chemicals.

512

00:32:43,000 --> 00:32:46,000

He knows they'll need acids and bases.

513

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

But he can't recall which one is the developer.

514

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

Are they alkaline?

515

00:32:51,000 --> 00:32:54,000

No, they're acidic because you have to wear rubber gloves to develop film.

516

00:32:54,000 --> 00:32:58,000

Well, alkaline would cause that reaction as well.

517

00:32:58,000 --> 00:32:59,000

Oh, really?

518

00:32:59,000 --> 00:33:00,000

Yeah.

519

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

Their first best guess is a bath in baking soda with a water rinse.

520

00:33:04,000 --> 00:33:06,000

All right, I've got the film.

521

00:33:06,000 --> 00:33:07,000

It's in my hand.

522

00:33:07,000 --> 00:33:09,000

I don't know that you're going to be able to tear that, are you?

523

00:33:09,000 --> 00:33:12,000

Actually, when I was a film projectionist, I believe you can.

524

00:33:12,000 --> 00:33:13,000

Hold on.

525

00:33:13,000 --> 00:33:14,000

Yep.

526

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

Yes, you heard right.

527

00:33:16,000 --> 00:33:18,000

Adam also worked as a projectionist.

528

00:33:18,000 --> 00:33:21,000

At a fat lot of good, that's doing it.

529

00:33:21,000 --> 00:33:26,000

I'm dipping it into the solution now and then moving it around inside the baking soda slurry.

530

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

I wish I remembered high school chemistry.

531

00:33:29,000 --> 00:33:32,000

Oh, there's a phrase you'd never hear from a diver.

532

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

And he'd probably give the film more than two minutes to develop.

533

00:33:36,000 --> 00:33:37,000

Is that just the leader?

534

00:33:37,000 --> 00:33:39,000

Yeah, it is.

535

00:33:39,000 --> 00:33:42,000

But I mean, I should be getting something off of it, and I'm not.

536

00:33:42,000 --> 00:33:47,000

The unfortunate thing is that they've got less than half an hour left.

537

00:33:47,000 --> 00:33:55,000

And by our estimate, it should take 10 minutes in the developer before you then wash it and fix it.

538

00:33:55,000 --> 00:33:58,000

They are running really short on time.

539

00:33:58,000 --> 00:34:03,000

To properly develop those campsite directions inside the allotted hour,

540

00:34:03,000 --> 00:34:06,000

they need to make the right choice right now.

541

00:34:06,000 --> 00:34:10,000

Adam digs deep to remember details from the old days.

542

00:34:10,000 --> 00:34:14,000

There was a couple of chemical baths and then you rinse the thing off in water.

543

00:34:14,000 --> 00:34:19,000

I don't remember what the chemical baths were, but I believe it was a three-step process.

544

00:34:19,000 --> 00:34:22,000

One bath and a second bath, then they're rinse.

545

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

Did they just figure that out?

546

00:34:24,000 --> 00:34:25,000

Dang it!

547

00:34:25,000 --> 00:34:27,000

How did I know?

548

00:34:27,000 --> 00:34:29,000

Well, maybe they don't.

549

00:34:29,000 --> 00:34:33,000

With 12 minutes remaining, Adam and Jamie cut the film roll in two,

550

00:34:33,000 --> 00:34:37,000

soaking one half in ammonia and the other in orange juice.

551

00:34:37,000 --> 00:34:40,000

We're running out of time, so we're hedging our bets.

552

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

We've got half the film in an acid, we've got half the film in a base.

553

00:34:44,000 --> 00:34:51,000

Time is almost up, so they'll dunk each roll of film in the alternate bowl to arrest any possible

development.

554

00:34:51,000 --> 00:34:55,000

So now I'm going to pull the film from one and put it in the other and vice versa.

555

00:34:55,000 --> 00:35:01,000

The OJ to ammonia shuffle might work, so long as they don't let the light in too soon.

556

00:35:01,000 --> 00:35:04,000

Alright, you want to pour some water in two of those coffee cups for me?

557

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

Here you go.

558

00:35:09,000 --> 00:35:11,000

We got nothings.

559

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

Nothings.

560

00:35:12,000 --> 00:35:14,000

They can't just wash it in water.

561

00:35:14,000 --> 00:35:15,000

Alright, you guys!

562

00:35:15,000 --> 00:35:18,000

It's been an hour and you haven't done it!

563

00:35:18,000 --> 00:35:20,000

I'm sorry, but you fail!

564

00:35:25,000 --> 00:35:26,000

At least they're having fun.

565

00:35:26,000 --> 00:35:28,000

You guys were close though in developing that film.

566

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

The way you're supposed to do it, you stick it in the orange juice for ten minutes and then you put it in the ammonia as a fixer.

567

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

You got to keep it all in the bag the entire time.

568

00:35:38,000 --> 00:35:41,000

If it gets exposed to any light, it doesn't work.

569

00:35:41,000 --> 00:35:43,000

Oh, the one thing that we didn't try.

570

00:35:43,000 --> 00:35:49,000

Adam knows that ultimate success all depends on just where your head's at, or at least what's in it.

571

00:35:49,000 --> 00:35:56,000

The problem with me is that I know all the lyrics from every song from the 70s, and there's no more room in here.

572

00:35:56,000 --> 00:36:04,000

Let's hope he remembers the words to Peter Frampton's Show Me the Way, because next up, they need to make a compass from scratch.

573

00:36:04,000 --> 00:36:08,000

And then negotiate a spectacular MacGyver style rescue.

574

00:36:08,000 --> 00:36:10,000

That's all we can do! I hope they saw us!

575

00:36:20,000 --> 00:36:24,000

Adam and Jamie are halfway through their four-part MacGyver challenge.

576

00:36:24,000 --> 00:36:29,000

So far, the good guys and the bad guys are all squared up at one apiece.

577

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

Just so this great escape doesn't come to a grinding halt,

578

00:36:33,000 --> 00:36:40,000

Tory and Grant deliver the vital campsite directions our MacGyver wannabes failed to find on the film.

579

00:36:40,000 --> 00:36:41,000

Dude!

580

00:36:42,000 --> 00:36:43,000

It's a clue!

581

00:36:43,000 --> 00:36:46,000

Alright, you have one hour to complete your task, boys!

582

00:36:47,000 --> 00:36:49,000

Don't forget your compass and don't get lost.

583

00:36:49,000 --> 00:36:52,000

Well, you need to make a compass, don't we?

584

00:36:52,000 --> 00:36:53,000

I think we do.

585

00:36:54,000 --> 00:36:59,000

Right on, Jamie! And the first thing you need to make a compass is a magnetized piece of metal.

586

00:36:59,000 --> 00:37:05,000

Adam wastes no time building an electromagnet from batteries, tape, and insulated wire.

587

00:37:06,000 --> 00:37:12,000

Jamie has taken apart the cheese grater, and Adam's using that to shave off the insulation.

588

00:37:12,000 --> 00:37:20,000

Truly inspired. The boys know they can magnetize a paperclip by repeatedly passing it over another large magnet.

589

00:37:21,000 --> 00:37:23,000

They're acting like they've done this before.

590

00:37:23,000 --> 00:37:24,000

They might have.

591

00:37:24,000 --> 00:37:25,000

I think they may have.

592

00:37:26,000 --> 00:37:28,000

I think this is all you have to do to magnetize it.

593

00:37:28,000 --> 00:37:30,000

I'm pretty sure it'll work.

594

00:37:31,000 --> 00:37:32,000

Ooh, that's starting to heat up.

595

00:37:32,000 --> 00:37:34,000

Oh, right, yeah, because I'm short circuiting.

596

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

Ooh, wow.

597

00:37:35,000 --> 00:37:36,000

Damn it!

598

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

That's a very good sign.

599

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

Once the clip is stuck in a cork and floated in water, it should point magnetic north.

600

00:37:43,000 --> 00:37:45,000

And it does.

601

00:37:45,000 --> 00:37:46,000

Nice!

602

00:37:46,000 --> 00:37:50,000

We were able to wrap wire around the screw and attach it to the batteries,

603

00:37:50,000 --> 00:37:55,000

and when you do that with electricity, run it through a wire that's wrapped around an iron or metal core,

604

00:37:55,000 --> 00:37:56,000

you get a magnet.

605

00:37:56,000 --> 00:37:58,000

And that puppy pointed north.

606

00:37:58,000 --> 00:37:59,000

Really nice and true.

607

00:37:59,000 --> 00:38:01,000

That's north. That's west.

608

00:38:01,000 --> 00:38:03,000

We want to go northwest, which is, whop-ah!

609

00:38:03,000 --> 00:38:04,000

That way.

610

00:38:04,000 --> 00:38:05,000

200 paces.

611

00:38:05,000 --> 00:38:06,000

There we go.

612

00:38:06,000 --> 00:38:12,000

The compass seems to be working, and so far, our likely lads are well inside the time limit.

613

00:38:13,000 --> 00:38:21,000

While the scoundrels practice their semaphore, Adam, Jamie and their entourage are more or less headed for home.

614

00:38:21,000 --> 00:38:23,000

99, 200.

615

00:38:23,000 --> 00:38:30,000

Okay, this is 200 paces northwest, and there's nothing here.

616

00:38:30,000 --> 00:38:31,000

No secret compartment.

617

00:38:31,000 --> 00:38:36,000

However, a cursory glance around shows a tarp over there.

618

00:38:36,000 --> 00:38:39,000

I think that is our secret campsite.

619

00:38:40,000 --> 00:38:45,000

Seems the compass isn't perfect, but it's good enough.

620

00:38:45,000 --> 00:38:50,000

We found the secret campsite with the mechanical compass we made ourselves.

621

00:38:50,000 --> 00:38:58,000

It's hard to miss a blue tent in a green field, so in less than 30 minutes, it's 2-1 to the MacGyver Good Guys.

622

00:38:58,000 --> 00:39:02,000

Congratulations, you guys. You made the compass.

623

00:39:02,000 --> 00:39:05,000

And you found our campsite, you completed test number three.

624

00:39:05,000 --> 00:39:08,000

And now it's on to test number four.

625

00:39:08,000 --> 00:39:12,000

There's no way they're going to pass this last one.

626

00:39:12,000 --> 00:39:17,000

Then we've got a signal this plane, this helicopter at three o'clock.

627

00:39:17,000 --> 00:39:25,000

In true MacGyver style, Adam and Jamie have to contrive some sort of rescue signal that flies at least 100 feet high.

628

00:39:25,000 --> 00:39:29,000

And they can only use what they find in the campsite.

629

00:39:29,000 --> 00:39:34,000

Grantentory have already planted all the fixings for a potato cannon.

630

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

The fuel is hairspray, ignition comes from the camp stove, potatoes are plentiful,

631

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

and PVC pipe should make a perfect mortar.

632

00:39:43,000 --> 00:39:49,000

The main thing that hits me is that it's windy and there's components for a kite here, a rather large one even.

633

00:39:49,000 --> 00:39:52,000

It's the last thing the bad guys expected.

634

00:39:52,000 --> 00:39:56,000

That's a kite. They're building a big giant kite.

635

00:39:56,000 --> 00:39:58,000

That wasn't the plan, but I like it.

636

00:39:58,000 --> 00:40:03,000

There's the tail.

637

00:40:03,000 --> 00:40:08,000

Yeah, I think they're using the original rope we tied them up with for a tail.

638

00:40:08,000 --> 00:40:11,000

Building the kite takes no time at all.

639

00:40:11,000 --> 00:40:16,000

But getting it up is sucking away the minutes.

640

00:40:16,000 --> 00:40:21,000

Are you okay?

641

00:40:21,000 --> 00:40:22,000

Yeah.

642

00:40:22,000 --> 00:40:23,000

Watch out.

643

00:40:23,000 --> 00:40:27,000

No, no, no.

644

00:40:27,000 --> 00:40:29,000

Make it upright.

645

00:40:29,000 --> 00:40:35,000

Jamie is trying to hold it in place to catch some air, but it's just a big sail out there.

646

00:40:35,000 --> 00:40:37,000

You know, they only have 10 minutes left.

647

00:40:37,000 --> 00:40:39,000

They have their kite built, but they haven't been able to get it off the ground.

648

00:40:39,000 --> 00:40:41,000

Time is running out.

649

00:40:41,000 --> 00:40:44,000

I hope they get it out.

650

00:40:44,000 --> 00:40:47,000

Oh my God! It's up!

651

00:40:47,000 --> 00:40:49,000

Come on!

652

00:40:49,000 --> 00:40:51,000

Go down!

653

00:40:51,000 --> 00:40:56,000

Grant's not sure which site he's batting for, but Tori's determined to be there for the kill.

654

00:40:56,000 --> 00:40:58,000

Alright, I'm going to go get in the chopper.

655

00:40:58,000 --> 00:41:02,000

If they can't get that up to 100 feet and I don't see it in the chopper, I'm not rescuing them.

656

00:41:02,000 --> 00:41:05,000

Alright.

657

00:41:05,000 --> 00:41:07,000

And we got liftoff.

658

00:41:07,000 --> 00:41:12,000

Jamie and Adam have one last shot at a miraculous, MacGyver-esque rescue.

659

00:41:12,000 --> 00:41:15,000

We got like two minutes to go. You ready for another flight?

660

00:41:15,000 --> 00:41:18,000

Yeah, we got to get it up there.

661

00:41:18,000 --> 00:41:19,000

Get me over there!

662

00:41:19,000 --> 00:41:21,000

Going this way doesn't help.

663

00:41:21,000 --> 00:41:24,000

Right now they're struggling with the kite. It's still on the ground.

664

00:41:24,000 --> 00:41:27,000

They need to get it to at least 100 feet.

665

00:41:27,000 --> 00:41:30,000

None too soon, it's airborne.

666

00:41:30,000 --> 00:41:33,000

At about 20 feet.

667

00:41:33,000 --> 00:41:35,000

Hey!

668

00:41:35,000 --> 00:41:38,000

Ha ha ha! It's up!

669

00:41:38,000 --> 00:41:43,000

Finally, right on time, the 10 kite flies just as high as the chopper.

670

00:41:43,000 --> 00:41:45,000

You know what? I'm going to call it.

671

00:41:45,000 --> 00:41:47,000

There it is. There's the signal.

672

00:41:47,000 --> 00:41:50,000

That kite has reached 100 feet.

673

00:41:50,000 --> 00:41:55,000

We've seen the signal. Let's land this chopper and rescue our boys.

674

00:41:55,000 --> 00:41:59,000

That was it. That's all we can do. I hope they saw us.

675

00:41:59,000 --> 00:42:04,000

They did see you. And good sports that they are, they don't want to kill you.

676

00:42:04,000 --> 00:42:06,000

Hey! How do you like that?

677

00:42:06,000 --> 00:42:07,000

You did it!

678

00:42:07,000 --> 00:42:10,000

Good job, you guys. You've been rescued.

679

00:42:10,000 --> 00:42:12,000

Awesome! Get out of here.

680

00:42:12,000 --> 00:42:14,000

We got through the chopper.

681

00:42:14,000 --> 00:42:17,000

We were just about 100 feet and the kite was right there.

682

00:42:17,000 --> 00:42:19,000

Next one. That's beautiful.

683

00:42:19,000 --> 00:42:22,000

I cannot believe they got it up that high.

684

00:42:25,000 --> 00:42:32,000

We were trying to direct them to make a potato gun and they went around the backside and made a kite and they signal the chopper.

685

00:42:32,000 --> 00:42:35,000

Those guys are good. They are good.

686

00:42:37,000 --> 00:42:41,000

MacGyver won Mythbusters 3!

687

00:42:41,000 --> 00:42:43,000

Ha ha ha!

688

00:42:43,000 --> 00:42:47,000

But a win for the boys really is a victory for MacGyver as well.

689

00:42:47,000 --> 00:42:52,000

We've finally proved that some of Mac's exploits aren't so far-fetched.

690

00:42:52,000 --> 00:42:59,000

And for once, in this our 100th episode, we can safely say you can try this at home.

691

00:42:59,000 --> 00:43:02,000

Just be real careful with the helicopter.

692

00:43:03,000 --> 00:43:08,000

Jamie, you have no idea how many fans have emailed us about doing a MacGyver episode.

693

00:43:08,000 --> 00:43:11,000

Yeah, we take fan requests very seriously.

694

00:43:11,000 --> 00:43:17,000

You're right. So seriously. In fact, we're doing another viewer special. All Myths of your ideas.

695

00:43:17,000 --> 00:43:25,000

So if you've got an idea you want us to try, log on to www.discovery.com.

696

00:43:25,000 --> 00:43:29,000

And let us know what you'd like us to test on the show.