

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 --> 00:00:34,000

This pilot can be taughed down by air traffic control.

3

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

Then, Carri Torri and Grant get gnarly with three skydiving movie myths from action flick Point Break.

4

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

Buster gets the push to find out the freefall time from 4,000 feet.

5

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

Grant discovers if you can have a conversation in midair.

6

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

I'm so excited.

7

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

And Torri lays his life on the line.

8

00:01:07,000 --> 00:01:13,000

In a high speed chase at terminal velocity to see if it's possible to catch someone up in freefall.

9

00:01:13,000 --> 00:01:15,000

Dude, I was in the car at a bump.

10

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

Who are the myth busters?

11

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

Adam Savage.

12

00:01:23,000 --> 00:01:24,000

That was awesome.

13

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

And Jamie Heineman.

14

00:01:26,000 --> 00:01:30,000

Between them more than 30 years of special effects experience.

15

00:01:30,000 --> 00:01:32,000

Rise, my son.

16

00:01:32,000 --> 00:01:34,000

Joining them, Grant Imahera.

17

00:01:34,000 --> 00:01:35,000

Warning, warning.

18

00:01:35,000 --> 00:01:36,000

Torri Bellachy.

19

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

It's getting dangerous now.

20

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

And that's how we like it.

21

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

And Carri Byron.

22

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

That is messed up.

23

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

They don't just tell the myths.

24

00:01:45,000 --> 00:01:47,000

Wow, I can feel the pressure.

25

00:01:47,000 --> 00:01:49,000

They put them to the test.

26

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

Come on, come on.

27

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

We need to come up with something.

28

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

What do we have?

29

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

We got nothing.

30

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

Some idea.

31

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

Parachutes.

32

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

Misconceptions about skydiving.

33

00:02:06,000 --> 00:02:08,000

There are a bunch of Hollywood movies that feature skydiving.

34

00:02:08,000 --> 00:02:09,000

Skydiving's good.

35

00:02:09,000 --> 00:02:11,000

Skydiving, airplanes.

36

00:02:11,000 --> 00:02:15,000

How about when the pilot's incapacitated and they talk a passenger into landing the plane?

37

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

Perfect.

38

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

That's really good.

39

00:02:17,000 --> 00:02:20,000

An entire episode about airplanes.

40

00:02:20,000 --> 00:02:23,000

Ladies and gentlemen, please buy the plane.

41

00:02:23,000 --> 00:02:27,000

Gentlemen, please buckle up for an airplane special.

42

00:02:29,000 --> 00:02:33,000

The Mythbusters are no strangers to aviation myths.

43

00:02:33,000 --> 00:02:35,000

I want to lift off this gun.

44

00:02:35,000 --> 00:02:38,000

They've made mincemeat of an airplane.

45

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

Yeah!

46

00:02:40,000 --> 00:02:44,000

They've fired chicken meat at an airplane.

47

00:02:44,000 --> 00:02:49,000

And they've even used an airplane to make a bus take to the sky.

48

00:02:53,000 --> 00:03:00,000

But now they're back with two brand new flights of fantasy straight from the fan site.

49

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

And starting off, it's an all-time classic.

50

00:03:05,000 --> 00:03:09,000

So in all of your eclectic careers, you've never gone out and gotten a pilot's license?

51

00:03:09,000 --> 00:03:11,000

Nope, thought about it. Never did it.

52

00:03:11,000 --> 00:03:13,000

Not even any illegal crop dusting?

53

00:03:13,000 --> 00:03:14,000

Mm-hmm.

54

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

Neither have I.

55

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

And you know, that makes you and I perfect test bed platforms for this next myth.

56

00:03:20,000 --> 00:03:22,000

You mean, talked into landing?

57

00:03:22,000 --> 00:03:24,000

Let me set the scene for you.

58

00:03:24,000 --> 00:03:26,000

You have chosen the kosher meal and have eaten it just fine,

59

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

but the pilot and co-pilot have accidentally been fed the salmon mousse.

60

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

Strict them with food poisoning. They can no longer fly the plane.

61

00:03:33,000 --> 00:03:36,000

And the stewardess says, is there anyone here who will land this plane

62

00:03:36,000 --> 00:03:40,000

and you get behind the seat, get on the horrid air traffic control,

63

00:03:40,000 --> 00:03:43,000

and they give you the instructions to land that plane safely.

64

00:03:43,000 --> 00:03:48,000

So you're a completely inexperienced pilot, but they talk you down into a safe landing.

65

00:03:48,000 --> 00:03:51,000

That's the myth. That's what we've got to test.

66

00:03:53,000 --> 00:03:56,000

The life of everyone on board depends upon just one thing.

67

00:03:56,000 --> 00:03:59,000

Finding someone back there who can not only fly this plane,

68

00:03:59,000 --> 00:04:01,000

but who didn't have fish for dinner.

69

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

It's a classic scene from the silver screen.

70

00:04:05,000 --> 00:04:08,000

The pilot and co-pilot are out of action.

71

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

And the flight attendant asks the question no one wants to hear.

72

00:04:13,000 --> 00:04:16,000

By the way, is there anyone on board who knows how to fly a plane?

73

00:04:18,000 --> 00:04:21,000

Can a complete novice really land an airplane?

74

00:04:23,000 --> 00:04:28,000

You know, Adam, I don't think our insurance company or the FAA

75

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

is going to give us any kind of permission to attempt to land a real plane.

76

00:04:31,000 --> 00:04:36,000

Nope. I think we're going to have to do this one in a simulator of some kind.

77

00:04:36,000 --> 00:04:41,000

And luckily, the researchers have turned up the creme de la creme of flight simulators for us.

78

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

It's NASA's and they use it to train real pilots.

79

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

Okay. And before we get talked down by the air traffic controller,

80

00:04:48,000 --> 00:04:53,000

I think we should try it own natural, you know, without any help at all and see how we do.

81

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

Because if we can do that, then there's no need for air traffic control.

82

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

Exactly.

83

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

So it's chocks away.

84

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

And first up, we meet the man with the machine, Terry Rager.

85

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

Welcome aboard.

86

00:05:04,000 --> 00:05:09,000

And after a brief tour, what's immediately clear is this simulator

87

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

ain't exactly your average game console.

88

00:05:12,000 --> 00:05:13,000

Wow.

89

00:05:13,000 --> 00:05:15,000

Those are the size of a small house.

90

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

That's amazing.

91

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

All you're going to find is pretty realistic once you get inside.

92

00:05:21,000 --> 00:05:25,000

With pneumatics to simulate every bump, more buttons than a whirlitzer organ,

93

00:05:25,000 --> 00:05:31,000

and a state of the art graphics display, this simulator is the real deal.

94

00:05:31,000 --> 00:05:32,000

Ready?

95

00:05:32,000 --> 00:05:35,000

And first into the hot seat is...

96

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

Jamie.

97

00:05:36,000 --> 00:05:38,000

You go first.

98

00:05:38,000 --> 00:05:40,000

Here is the plan.

99

00:05:40,000 --> 00:05:45,000

We're going to try landing this flight simulator on our own without any assistance,

100

00:05:45,000 --> 00:05:48,000

because, well, if we can, there's no need for a test.

101

00:05:48,000 --> 00:05:53,000

They've concocted for each of us a flight scenario that will open when we're ready to fly,

102

00:05:53,000 --> 00:05:56,000

that will tell us the critical details about our flight.

103

00:05:56,000 --> 00:05:58,000

Jamie's going to go first.

104

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

And who knows, maybe he's going to turn out to be a great pilot.

105

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

I wouldn't be that surprised.

106

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

Okay, so I've left Chicago.

107

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

I'm on my way to Denver.

108

00:06:07,000 --> 00:06:13,000

I'm on a large commercial airliner with 160 passengers, and I'm at 15,000 feet.

109

00:06:13,000 --> 00:06:14,000

Good luck.

110

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

It's up to you to land the plane and save the lives of the passengers without any help.

111

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

Okay, well, I guess I better get to it.

112

00:06:22,000 --> 00:06:25,000

It's worth remembering, despite the aviator moustache,

113

00:06:25,000 --> 00:06:29,000

Jamie has absolutely no experience piloting a plane.

114

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

And to make a tough task tougher,

115

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

Cherry has programmed a night flight.

116

00:06:33,000 --> 00:06:38,000

So Jamie will be quite literally flying in the twilight zone.

117

00:06:40,000 --> 00:06:44,000

I have a basic understanding of how airplanes work,

118

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

which I think should be helpful.

119

00:06:46,000 --> 00:06:49,000

But the rest of it, this is all alien to me.

120

00:06:49,000 --> 00:06:52,000

I'd say this is going to be a little bit of a rough landing.

121

00:06:54,000 --> 00:06:57,000

The simulator cockpit, modeled on a generic passenger plane,

122

00:06:57,000 --> 00:07:00,000

has real instrumentation and flight controls.

123

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

And state-of-the-art computers control the actuators that respond physically to the pilot's handling.

124

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

Let's just start to play with the controls a little bit.

125

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

And it's clear from the get-go that Jamie is hopelessly out of his depth.

126

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

I need to find my speed. Why can't I find my speed?

127

00:07:21,000 --> 00:07:24,000

With alarm, sirens and verbal warnings going off,

128

00:07:26,000 --> 00:07:29,000

Jamie's struggling. He's going too fast.

129

00:07:31,000 --> 00:07:36,000

And with his roller coaster steering style,

130

00:07:36,000 --> 00:07:39,000

he's breaking every FAA regulation in the book.

131

00:07:39,000 --> 00:07:46,000

It just rolled out of a 45-degree bank, which normally 30 degrees is the maximum air carrier would do.

132

00:07:46,000 --> 00:07:52,000

Jamie's unorthodox approach has found Denver Airport, but he's not in great shape.

133

00:07:52,000 --> 00:07:55,000

It's just too high and too fast. It's not a good combination.

134

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

The recommended landing speed for a plane of this size is about 140 knots,

135

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

but Jamie's screaming in at over 300.

136

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

Yeah, shut up.

137

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

All in all, it's not going well. And even the simulator is starting to panic.

138

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

Why is it telling me not to think?

139

00:08:17,000 --> 00:08:23,000

On his final approach, Maverick Jamie can't help but try something straight from Top Gun.

140

00:08:23,000 --> 00:08:25,000

I'm going to buzz the tower.

141

00:08:29,000 --> 00:08:33,000

Despite looking everywhere, he can't find the button that lowers the landing gear.

142

00:08:33,000 --> 00:08:37,000

Without wheels, this really is going to be a rough landing.

143

00:08:45,000 --> 00:08:49,000

Jamie hits the deck, putting the terror into Terra firma.

144

00:08:49,000 --> 00:08:53,000

A crunching, shuddering skid ends in disaster.

145

00:08:53,000 --> 00:08:55,000

Lucky it's just a simulator.

146

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

Ab, please exit only by the front doors.

147

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

Unfortunately, I died and all of my passengers in the crew died along with me.

148

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

He was too high, too fast most of the time. He was using gas at quite a rate

149

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

and never found the landing gear lever.

150

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

So he was kind of really at odds with the air carrier.

151

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

So landing a passenger jet without experience or help is nigh on impossible

152

00:09:24,000 --> 00:09:27,000

unless Adam can prove otherwise.

153

00:09:28,000 --> 00:09:33,000

The hours of flight time I have total in simulators and real planes, zero.

154

00:09:33,000 --> 00:09:34,000

Still to come.

155

00:09:35,000 --> 00:09:40,000

Tori flies like a bird, but will he sing like a canary?

156

00:09:40,000 --> 00:09:43,000

And we're on the flight deck with Adam and Jamie.

157

00:09:43,000 --> 00:09:45,000

You're knowing that we'll give it power.

158

00:09:46,000 --> 00:09:48,000

To see if they can get talked into land.

159

00:09:48,000 --> 00:09:50,000

Everything's in your hands now.

160

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

It's airplane hour on Mythbusters.

161

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

And next, a myth that's sure to get your adrenaline rushing.

162

00:10:05,000 --> 00:10:06,000

Airplane, so what do we got?

163

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

Okay, we got a triple bill of myths about what happens when you fall out of them.

164

00:10:11,000 --> 00:10:12,000

Alright, let's hear them.

165

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

Okay, there's a skydiving scene in the hit movie Point Break.

166

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

And amazingly, all three myths come from the same scene.

167

00:10:19,000 --> 00:10:21,000

Three myths to one scene, that has got to be a record.

168

00:10:21,000 --> 00:10:22,000

So what are they?

169

00:10:22,000 --> 00:10:25,000

Alright, well, pull onto your hats, grab your popcorn,

170

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

because it's time to point the finger at Point Break.

171

00:10:30,000 --> 00:10:34,000

I know you want me so bad as I ass in your mouth, but not this time.

172

00:10:34,000 --> 00:10:36,000

It's movie magic at its best.

173

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

In Hollywood heist movie Point Break.

174

00:10:40,000 --> 00:10:41,000

I need help, come here.

175

00:10:42,000 --> 00:10:47,000

Patrick Swayze jumps out of an airplane, taking with him the last remaining shoot.

176

00:10:49,000 --> 00:10:55,000

More than a little upset, Keanu Reeves has no option but to follow without a parachute.

177

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

So now come the myths.

178

00:10:59,000 --> 00:11:05,000

Myth one, by streamlining his body, Reeves catches up with Swayze in free fall,

179

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

despite the 15 second head start.

180

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

Myth two, after they meet in mid-air, they have a full on shouting match.

181

00:11:16,000 --> 00:11:20,000

And myth three, the whole scene lasts over 90 seconds,

182

00:11:20,000 --> 00:11:25,000

even though the plane's original altitude was only 4,000 feet.

183

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

Will these myths come crashing back to work?

184

00:11:31,000 --> 00:11:32,000

Alright, so what's the plan?

185

00:11:32,000 --> 00:11:34,000

Well, I reckon we should just get an airplane and go for it.

186

00:11:34,000 --> 00:11:39,000

First off, I want to test if it takes more than 90 seconds to fall only 4,000 feet like the movie.

187

00:11:39,000 --> 00:11:40,000

Cool.

188

00:11:40,000 --> 00:11:41,000

You know why we're at it?

189

00:11:41,000 --> 00:11:45,000

We should test to see if you can actually have a conversation while you're in free fall.

190

00:11:45,000 --> 00:11:47,000

Yeah, we just jump out of the plane and see if we can hear each other. Awesome.

191

00:11:47,000 --> 00:11:51,000

And when we have the answer to those two things, we'll come back to the shop

192

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

and then we can figure out how to tackle free fall catch up.

193

00:11:54,000 --> 00:11:56,000

Alright, let's take to the skies.

194

00:11:57,000 --> 00:11:59,000

So it's parachute pandemonium.

195

00:11:59,000 --> 00:12:04,000

As the team gets ready to explore a trilogy of perilous point break myths

196

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

and like all Hollywood action movies, they're starting with a bang.

197

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

We've come to Sky Dance Skydiving in Northern California.

198

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

Not only have they got 20 years of experience, but they've also got planes and they've got parachutes.

199

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

So it's the perfect place for us to put these point break myths to the test.

200

00:12:23,000 --> 00:12:27,000

And first up, it's the 4,000 foot drop test.

201

00:12:27,000 --> 00:12:33,000

The first test that we're going to do, there's a scene in point break where Patrick Swayze jumps out of a plane at 4,000 feet

202

00:12:33,000 --> 00:12:36,000

and he free falls for like two minutes.

203

00:12:36,000 --> 00:12:40,000

We're going to fly up to 4,000 feet, Kari's going to push out the human simulate

204

00:12:40,000 --> 00:12:43,000

and we're going to see how long it takes for the dummy to hit the ground.

205

00:12:44,000 --> 00:12:49,000

Complete with smoke canister, the simulate will be easy to track as it falls from the sky.

206

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

And doing the tracking will be Grant and Tori.

207

00:12:54,000 --> 00:12:57,000

Headlight for Storm Chasers!

208

00:12:58,000 --> 00:13:01,000

But Tori doesn't realize how right he is.

209

00:13:01,000 --> 00:13:05,000

When the guys arrive at the landing site, the weather is closed in.

210

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

I see him circling.

211

00:13:07,000 --> 00:13:10,000

They're right there, they just went behind the clouds.

212

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

That's a bird, dude.

213

00:13:15,000 --> 00:13:16,000

Kari, what's your altitude?

214

00:13:16,000 --> 00:13:19,000

We are at 4,000 feet, ready to drop when you are.

215

00:13:19,000 --> 00:13:22,000

All right Kari, we are all ready to go.

216

00:13:22,000 --> 00:13:27,000

With the cloud cover lifted and the correct altitude reached, it's go time.

217

00:13:28,000 --> 00:13:35,000

And as the simulate is elegantly shown the door, Tori starts the stopwatch to time his fall.

218

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

Right there he is.

219

00:13:37,000 --> 00:13:38,000

Look at him go.

220

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

Remember, the point break scene lasted over 90 seconds.

221

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

How long will the simulate last?

222

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

Ouch.

223

00:13:49,000 --> 00:13:52,000

Oh my God, dude he got cut in half.

224

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

So that's what they look like inside.

225

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

Back to holy split and his guts are all over the field.

226

00:14:01,000 --> 00:14:07,000

Split in half and leaving a simulated swazy sized crater, that's one busted simulate.

227

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

But is the first of the point break myths also busted.

228

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

So how long did it take?

229

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

That was 31 seconds, there's no way.

230

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

In the movie he's like a minute and a half, two minutes free fall, he would die.

231

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

In the movie he's free falling for a minute and a half, maybe more.

232

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

There's no way he would have been able to free fall that long.

233

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

He would have died.

234

00:14:28,000 --> 00:14:29,000

So this one's busted.

235

00:14:30,000 --> 00:14:31,000

Just like our simulate.

236

00:14:33,000 --> 00:14:35,000

It's strike one against point break.

237

00:14:36,000 --> 00:14:41,000

So bring on myth number two, where the simulate is out and Grant is in.

238

00:14:41,000 --> 00:14:47,000

It doesn't really fill me with a great sense of joy to see what could potentially happen

239

00:14:47,000 --> 00:14:50,000

if something went horribly, horribly wrong.

240

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

Up next.

241

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

Okay, I'm pulling out.

242

00:14:53,000 --> 00:14:58,000

The seatbelt sign is on as rookie pilot Adam tries to land a plane without ground support.

243

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

And then, Grant bails out to test the hearsay in a free fall myth.

244

00:15:12,000 --> 00:15:20,000

Thankfully, most times we fly, the hardest decision to make is whether to have fish or chicken.

245

00:15:21,000 --> 00:15:27,000

But if the journey took a turn for the worse, can a complete novice really take the hot seat

246

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

and be talked into land?

247

00:15:31,000 --> 00:15:34,000

So far, Jamie's tried a landing without any external help.

248

00:15:38,000 --> 00:15:39,000

And failed miserably.

249

00:15:40,000 --> 00:15:41,000

But what about Adam?

250

00:15:42,000 --> 00:15:43,000

Okay, Adam, it's your turn.

251

00:15:43,000 --> 00:15:49,000

Adam has an identical flight plan to Jamie, but let's hope the outcome is different.

252

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

Like Jamie, Adam's hardly confident and once he takes the controls, it's pretty clear why.

253

00:15:55,000 --> 00:15:56,000

Oh, I'm actually flying.

254

00:15:57,000 --> 00:15:58,000

Oh, oh wow.

255

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

What, what?

256

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

I don't know what to do.

257

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

Oh my God.

258

00:16:04,000 --> 00:16:09,000

Adam has no idea what his altitude is and with the airport some distance away,

259

00:16:09,000 --> 00:16:13,000

he flirts with a hard and premature landing.

260

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

Okay, I'm pulling up.

261

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

I'm pulling up.

262

00:16:18,000 --> 00:16:19,000

All right, all right, I'm pulling up.

263

00:16:19,000 --> 00:16:20,000

I'm pulling up.

264

00:16:21,000 --> 00:16:22,000

I am.

265

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

With the passengers now using their sick bags, Adam's speed has dropped so low he's stalled.

266

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

And that leaves only one outcome.

267

00:16:31,000 --> 00:16:32,000

Oh, jeez.

268

00:16:32,000 --> 00:16:33,000

Okay, wait.

269

00:16:33,000 --> 00:16:34,000

Oh my God.

270

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

Oh, I don't think I did so well.

271

00:16:42,000 --> 00:16:43,000

I crashed.

272

00:16:43,000 --> 00:16:47,000

I crashed in a farmland about 10 miles outside of Denver.

273

00:16:48,000 --> 00:16:50,000

Rest of the knowledge that there's always a co-pilot.

274

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

And that I'm not the likely first choice to help land the plane in an emergency.

275

00:16:57,000 --> 00:17:04,000

What's clear from both tests is that with no help, crash landing a plane is pretty much the only outcome.

276

00:17:04,000 --> 00:17:08,000

But can an air traffic controller really cancel out the carnage?

277

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

Oh, I don't think I did so well.

278

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

You know, I'm so disappointed with my first attempt at landing without any help that they actually let me try it again.

279

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

To see my second attempt, log on to [discovery.com slash mythbusters](http://discovery.com/slash/mythbusters).

280

00:17:22,000 --> 00:17:23,000

Go!

281

00:17:27,000 --> 00:17:31,000

The guys are testing three skydiving myths from the action movie Point Break.

282

00:17:31,000 --> 00:17:42,000

And so far, the simulator has shown that free falling for a minute and a half from an altitude of 4,000 feet is busted.

283

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

With myth number one down for the count, it's on to the next part of the trilogy.

284

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

I'm a fighter!

285

00:17:49,000 --> 00:17:50,000

Audio Domingo!

286

00:17:51,000 --> 00:17:52,000

Oh, shucks!

287

00:17:52,000 --> 00:17:56,000

Myth number two is about what you can hear during free fall.

288

00:17:57,000 --> 00:17:58,000

You are crazy!

289

00:17:59,000 --> 00:18:01,000

Is it really possible to have a conversation?

290

00:18:02,000 --> 00:18:03,000

Dude, got it!

291

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

Or is that another load of Hollywood hot air?

292

00:18:07,000 --> 00:18:09,000

What the hell are you two doing?

293

00:18:10,000 --> 00:18:11,000

We're doing Point Break myths.

294

00:18:12,000 --> 00:18:13,000

Okay.

295

00:18:13,000 --> 00:18:14,000

On Keanu Reeves!

296

00:18:14,000 --> 00:18:15,000

I'm Patrick's wifey!

297

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

Can't you tell?

298

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

Get back here. Swadesy needs his hair.

299

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

You know, with our first experiment, we pretty much busted the whole Point Break skydiving scene.

300

00:18:23,000 --> 00:18:27,000

I mean, you wouldn't have much time to do anything from 4,000 feet.

301

00:18:27,000 --> 00:18:35,000

So we're going to take that out of the equation, we're going to go up higher, and we're going to try to bust or confirm the myth that you can hold a conversation while you're free falling.

302

00:18:35,000 --> 00:18:42,000

And having just seen what happens when things go wrong, Grant is understandably nervous.

303

00:18:42,000 --> 00:18:48,000

I've been bungee jumping before, and that was probably one of the most terrifying moments of my life.

304

00:18:48,000 --> 00:18:54,000

I have a feeling this will probably be a new high in terrifying moments in my life.

305

00:18:55,000 --> 00:19:03,000

Of course, because skydiving is so terrifying, Grant will be making a tandem jump, securely attached to an instructor.

306

00:19:04,000 --> 00:19:12,000

And while Grant's expression says it all, Carrie and Tori, along with the skydiving specialist Dan, are figuring out the plan.

307

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

So we're going to give you something to say, you're going to get up close to Grant, tell him that, and then when he lands, we're going to see if he heard what you said.

308

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

So this is what we came up with.

309

00:19:20,000 --> 00:19:24,000

Grant, if you pull my finger, you will hear a tuba.

310

00:19:24,000 --> 00:19:27,000

Grant, if you pull my finger, you will hear a tuba.

311

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

Hmm, interesting.

312

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

What are we, like, ten?

313

00:19:30,000 --> 00:19:31,000

Are you ready?

314

00:19:31,000 --> 00:19:35,000

Grant takes off to test the second point break myth.

315

00:19:35,000 --> 00:19:43,000

All the things that we do, if something goes wrong, you may get hurt, you may get a broken bone, but this one, if something goes wrong, you're pretty much dead.

316

00:19:43,000 --> 00:19:45,000

That weighs heavy on the person's mind.

317

00:19:45,000 --> 00:19:49,000

And the mind that's getting heavy belongs to Grant.

318

00:19:49,000 --> 00:19:53,000

I'm sorry, I'm a little nervous. Just a little.

319

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

But it's too late to back out now.

320

00:19:55,000 --> 00:19:57,000

The box is on.

321

00:19:57,000 --> 00:19:58,000

The door's open.

322

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

Okay.

323

00:19:59,000 --> 00:20:05,000

And it's a short countdown to find out if you can hold a conversation during a skydive free fall.

324

00:20:05,000 --> 00:20:07,000

Ready, set, on your feet.

325

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

And Grant's out.

326

00:20:09,000 --> 00:20:14,000

Attached to his buddy, he plummets towards the earth.

327

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

Almost immediately, skydiver Dan approaches with a message from Torian Carrick.

328

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

With the wind at a deafening volume, Dan shouts the tuba phrase as loud as he can.

329

00:20:27,000 --> 00:20:34,000

And repeats it over and over until Grant's parachute is pulled.

330

00:20:34,000 --> 00:20:41,000

Once he slows down, you can hear his screams from miles away.

331

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

I'm gonna land like you know what you're doing.

332

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

All right.

333

00:20:47,000 --> 00:20:49,000

Nice!

334

00:20:49,000 --> 00:20:51,000

Nice landing!

335

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

I'm alive!

336

00:20:53,000 --> 00:20:59,000

Grant may be alive, but was the mid-air conversation music to his ears,

337

00:20:59,000 --> 00:21:03,000

or was Grant brassed off that he couldn't hear a thing?

338

00:21:03,000 --> 00:21:05,000

Did you hear that?

339

00:21:05,000 --> 00:21:08,000

I couldn't hear anything.

340

00:21:08,000 --> 00:21:11,000

Are you at all curious what the phrase was?

341

00:21:11,000 --> 00:21:12,000

Absolutely.

342

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

What was it?

343

00:21:13,000 --> 00:21:17,000

If you pull my finger, you will hear a tuba.

344

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

She came up with that one.

345

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

That was amazing.

346

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

I mean, we're up there and the wind is rushing past me and Dan came in.

347

00:21:25,000 --> 00:21:27,000

He was right in my face.

348

00:21:27,000 --> 00:21:29,000

And he's like,

349

00:21:29,000 --> 00:21:31,000

But I could not hear anything.

350

00:21:31,000 --> 00:21:33,000

All I could hear was

351

00:21:33,000 --> 00:21:38,000

Can you have a conversation in free fall?

352

00:21:38,000 --> 00:21:39,000

Absolutely not.

353

00:21:39,000 --> 00:21:41,000

Keep your wings level if you can.

354

00:21:41,000 --> 00:21:47,000

After the break, will Jamie touch down on the tarmac when he's talked into land?

355

00:21:47,000 --> 00:21:52,000

And is action flick point break full of hot air?

356

00:21:52,000 --> 00:21:56,000

Flying a plane requires hundreds of hours of training.

357

00:21:56,000 --> 00:21:59,000

And on this airplane hour of MythBusters,

358

00:21:59,000 --> 00:22:04,000

it's clear to see that every single minute of that time is well spent.

359

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

Because Adam and Jamie are the ones who are going to be the best at this.

360

00:22:12,000 --> 00:22:15,000

And they're going to be the best at this.

361

00:22:15,000 --> 00:22:18,000

And they're going to be the best at this.

362

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

Because Adam and Jamie have just shown that new D pilots don't exactly pass with flying colors.

363

00:22:29,000 --> 00:22:31,000

Oh, I don't think I did so well.

364

00:22:31,000 --> 00:22:36,000

Now it's time to see if we can be talked down by an air traffic controller.

365

00:22:36,000 --> 00:22:45,000

So Terri is going to be that person and he's going to try and talk us down using only the information that an air traffic controller would have access to,

366

00:22:45,000 --> 00:22:48,000

as well as feedback from us via the radio.

367

00:22:48,000 --> 00:22:50,000

We'll see what happens.

368

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

While you were busy buzzing the tower, I was turning up some pretty interesting facts about this myth.

369

00:23:02,000 --> 00:23:03,000

Which was?

370

00:23:03,000 --> 00:23:05,000

Well, it's never happened.

371

00:23:05,000 --> 00:23:07,000

What's never happened?

372

00:23:07,000 --> 00:23:13,000

No passenger has ever been talked into landing by air traffic control on a commercial airliner.

373

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

There's simply never been a case where both the pilot and the co-pilot have been removed from the equation.

374

00:23:19,000 --> 00:23:24,000

Well, I guess this is another case of things happening in the movies that don't happen in real

life.

375

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

It's not going to stop us from going for it, though.

376

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

Jamie's just about to go in and get talked into landing and get this.

377

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

Even though he's been flying since he was 16, Terri has never talked anyone into landing.

378

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

It is not part of any pilot's training.

379

00:23:38,000 --> 00:23:41,000

So this is a first for everybody involved.

380

00:23:41,000 --> 00:23:43,000

Jamie wants more man's the hot seat.

381

00:23:43,000 --> 00:23:50,000

To make conditions different from test one, Terri's added a significant tailwind and some turbulence to boot.

382

00:23:50,000 --> 00:23:53,000

So now it's down to him and Jamie.

383

00:23:53,000 --> 00:23:56,000

And first up is a little cockpit 101.

384

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

Screen straight ahead that has the blue and the brown on it.

385

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

That is your primary flight display.

386

00:24:02,000 --> 00:24:07,000

Terri carefully explains to Jamie exactly what all the buttons and numbers mean.

387

00:24:07,000 --> 00:24:10,000

See, that says landing gear. I was looking for that earlier.

388

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

Okay.

389

00:24:11,000 --> 00:24:15,000

And with that nailed, it's time to put the myth to the test.

390

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

I'm at 5,760 feet.

391

00:24:19,000 --> 00:24:20,000

Pull your nose up.

392

00:24:20,000 --> 00:24:22,000

Pull your nose up and give it power.

393

00:24:22,000 --> 00:24:23,000

Give power.

394

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

Lie back up to 7,000 feet.

395

00:24:25,000 --> 00:24:32,000

Remember, Terri can't see any of the instruments in Jamie's simulator or the graphic flight path.

396

00:24:32,000 --> 00:24:38,000

And the stress of flying blind coupled with that near miss is starting to show.

397

00:24:38,000 --> 00:24:43,000

Okay, what's your pitch out attitude? Where's the square in relationship to any of those marks?

398

00:24:43,000 --> 00:24:45,000

I'm at 5 degrees over.

399

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

Very good.

400

00:24:46,000 --> 00:24:53,000

Finally, Terri gets an eyeball on the incoming jet and they begin the all important landing sequence.

401

00:24:53,000 --> 00:24:56,000

Okay, does it look like you're going to make the runway?

402

00:24:56,000 --> 00:24:59,000

I'm not directly in line with it.

403

00:24:59,000 --> 00:25:05,000

Well, try to get to it if you can't. Everything's in your hands now and I can't see anywhere.

404

00:25:05,000 --> 00:25:06,000

Roger.

405

00:25:06,000 --> 00:25:11,000

At the last minute, despite Terri's best efforts, it's all down to Jamie.

406

00:25:11,000 --> 00:25:16,000

I'm at 10,000 feet.

407

00:25:16,000 --> 00:25:18,000

And he nails it.

408

00:25:18,000 --> 00:25:19,000

I'm down.

409

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

Congratulations, Jamie. You made it.

410

00:25:22,000 --> 00:25:23,000

Remarkable.

411

00:25:23,000 --> 00:25:26,000

Jamie's ended up dead center on the runway.

412

00:25:26,000 --> 00:25:30,000

Plane, passengers and crew are all completely fine.

413

00:25:30,000 --> 00:25:33,000

Landing the plane without any help, hard.

414

00:25:33,000 --> 00:25:36,000

Landing the plane with somebody talking you through it?

415

00:25:36,000 --> 00:25:37,000

Not bad at all.

416

00:25:37,000 --> 00:25:44,000

I think the key thing to remember about this getting talked into landing is the talking part is really important.

417

00:25:44,000 --> 00:25:48,000

I mean, without that, all this is a bunch of gibberish.

418

00:25:48,000 --> 00:25:54,000

But the decision on whether this myth is a birdie or a bogey will have to wait until Adam takes a turn.

419

00:25:59,000 --> 00:26:02,000

Next is the free jumping. Watch him as he drops like a bird.

420

00:26:02,000 --> 00:26:07,000

Ever since people invented planes, they've wanted to throw themselves out of them.

421

00:26:07,000 --> 00:26:11,000

Parachute jumping is not a sport, but a science.

422

00:26:11,000 --> 00:26:19,000

Some would say it's a science, but as Carrie, Tori and Grand have found out, it's also shrouded in mythology.

423

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

Not looking too good for point break.

424

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

Yeah, the whole idea that you can jump out of a plane at 4,000 feet and it'll take over 90 seconds till you hit the ground, it's totally busted.

425

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

We dropped the simulate, it took 31 seconds before he hit.

426

00:26:33,000 --> 00:26:38,000

Yeah, and trying to have a conversation in free fall? Totally impossible. That one's busted too.

427

00:26:38,000 --> 00:26:42,000

Okay, so the myths are zero for two, but we still have to test free fall catch up.

428

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

That's the one where Patrick Swayze jumps out of the plane with the only parachute, gets into skydiving position,

429

00:26:46,000 --> 00:26:50,000

and then Keanu Reeves freaks out 15 seconds later, jumps out with no parachute,

430

00:26:50,000 --> 00:26:55,000

but gets in a streamlined position and catches up to Patrick in 45 seconds.

431

00:26:55,000 --> 00:27:02,000

Well, you know, there is a lot involved in this one. There's human surface area, wind resistance, terminal velocity.

432

00:27:02,000 --> 00:27:10,000

I definitely want to go to the skydive facility and test this full scale, but before that, I want to do a few small scale tests, just to nail the science.

433

00:27:10,000 --> 00:27:14,000

Alright, hurry up with your small scale tests because I want to go skydiving.

434

00:27:14,000 --> 00:27:15,000

Yeah!

435

00:27:15,000 --> 00:27:20,000

It's the biggest test of the point break trilogy of myths, and to kick it off,

436

00:27:20,000 --> 00:27:26,000

Grant Hastily carves up the patented myth busters small scale test.

437

00:27:26,000 --> 00:27:34,000

Now, before we take this experiment full scale, I want to do a small scale experiment first to demonstrate that objects with the same mass

438

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

but different shapes will have different terminal velocities. That's because the difference in wind resistance.

439

00:27:40,000 --> 00:27:48,000

Now, to test this, I've built a small wind tunnel. It consists of this plastic tube and this source of air.

440

00:27:48,000 --> 00:27:52,000

I have a ball valve here that I can adjust how much air goes into the wind tunnel.

441

00:27:52,000 --> 00:28:00,000

And at the top, I'll measure what the velocity of the wind is, and that'll correspond to that object's terminal velocity.

442

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

If I can get it to stop in here, that speed will be what I'm looking for.

443

00:28:05,000 --> 00:28:10,000

Terminal velocity is the maximum speed that something can fall through the air.

444

00:28:11,000 --> 00:28:19,000

It's when the force of gravity is matched by the force of wind resistance, preventing that object from falling any faster.

445

00:28:19,000 --> 00:28:25,000

But can subtle changes to its shape affect how fast that object falls?

446

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

So what I'm going to do is cut out two human shapes corresponding to our two human skydivers.

447

00:28:31,000 --> 00:28:40,000

One in the arms and legs out position for maximum wind resistance and one in the straight position for minimum wind resistance.

448

00:28:40,000 --> 00:28:44,000

I'll put them both in the wind tunnel and see what the difference is.

449

00:28:44,000 --> 00:28:53,000

By ensuring that the two metal cutouts have identical mass, any difference in their terminal velocity is down to their shape and not their weight.

450

00:28:56,000 --> 00:29:00,000

First up, it's the spread eagle cutout who enters the tube.

451

00:29:02,000 --> 00:29:04,000

Okay, what'd you get?

452

00:29:04,000 --> 00:29:09,000

We're looking at a pretty stable average of about 1450 in feet per minute.

453

00:29:09,000 --> 00:29:10,000

Okay.

454

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

Next up, will the streamline cutout go any faster?

455

00:29:14,000 --> 00:29:16,000

I got about 2,000 feet per minute.

456

00:29:16,000 --> 00:29:17,000

Oh, fantastic.

457

00:29:17,000 --> 00:29:19,000

So it's proof of concept.

458

00:29:19,000 --> 00:29:24,000

With better streamlining, metal cutouts at least can fall through the air much faster.

459

00:29:24,000 --> 00:29:28,000

So what does that mean for the final point break myth?

460

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

The myth is looking pretty good.

461

00:29:31,000 --> 00:29:40,000

In fact, Johnny Utah jumps out of the plane with a smaller surface area, he might be able to catch up to Bodie maintaining that bigger surface area position.

462

00:29:40,000 --> 00:29:44,000

The next step is to take this into a real life scenario.

463

00:29:44,000 --> 00:29:47,000

We're going to go to a wind tunnel and try it on ourselves.

464

00:29:47,000 --> 00:29:50,000

No sooner said than done.

465

00:29:50,000 --> 00:29:56,000

I Fly San Francisco is one of the most advanced terminal velocity wind tunnels in the world.

466

00:29:58,000 --> 00:30:03,000

Okay, so we're here to see how changes in wind resistance affect terminal velocity.

467

00:30:03,000 --> 00:30:04,000

So what's the plan?

468

00:30:04,000 --> 00:30:10,000

I say we just get in there and try different body positions and have some that are more wind resistant and some that are less and see how we behave.

469

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

So that's the plan.

470

00:30:12,000 --> 00:30:16,000

And once they're dressed to kill, the machine kicks into life.

471

00:30:17,000 --> 00:30:22,000

And when the fans reach a speed of 120 miles per hour,

472

00:30:22,000 --> 00:30:23,000

120.

473

00:30:23,000 --> 00:30:25,000

Tori's going to jump in.

474

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

I expect I'm going to walk in there and I'm probably going to get tossed around like a rag doll.

475

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

Once Tori stops screaming, he spreads his body out just like the way Swayze does in the movie.

476

00:30:40,000 --> 00:30:43,000

And dude, he floats in midair.

477

00:30:46,000 --> 00:30:51,000

But when Carrie steps in, she keeps her body vertical and streamlined like Keanu.

478

00:30:51,000 --> 00:30:54,000

So she doesn't leave the ground.

479

00:30:56,000 --> 00:31:02,000

We saw with Carrie and Tori both at the same velocity, the same wind coming up on both of them.

480

00:31:02,000 --> 00:31:09,000

Carrie was in a very crouched, enclosed position where she had very little surface area facing the wind,

481

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

whereas Tori was floating on air.

482

00:31:12,000 --> 00:31:19,000

I think this is a great demonstration of how your surface area affects your terminal velocity.

483

00:31:19,000 --> 00:31:22,000

That was one of those fun things I've ever done.

484

00:31:22,000 --> 00:31:25,000

It was crazy. You felt like you were flying.

485

00:31:26,000 --> 00:31:34,000

Actually, Carrie, flying comes later as Tori puts his lips on the line for the death-defying full-scale test.

486

00:31:36,000 --> 00:31:38,000

Ah, dude, how much fun was that?

487

00:31:38,000 --> 00:31:42,000

Besides being the perfect example of surface area to terminal velocity.

488

00:31:42,000 --> 00:31:45,000

Well, you know what? That lends some credence to the Smith.

489

00:31:45,000 --> 00:31:46,000

Next thing...

490

00:31:46,000 --> 00:31:48,000

Skydiving!

491

00:31:48,000 --> 00:31:54,000

Coming right up, Adam puts the brakes on in the Mythbusters Mile High Club.

492

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

It's airplane hour on Mythbusters.

493

00:32:06,000 --> 00:32:09,000

Here is time and we're ready to land.

494

00:32:09,000 --> 00:32:17,000

And Adam and Jamie are testing the movie myth of being talked into land, and Jamie's just had a touchdown moment.

495

00:32:18,000 --> 00:32:23,000

Under Terri's expert guidance, he flew like a bird and made the perfect landing.

496

00:32:23,000 --> 00:32:25,000

Next up, it's Adam.

497

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

Oh, okay, wait.

498

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

Remember, here's what happened on his solo test.

499

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

Will Terri help him do better?

500

00:32:35,000 --> 00:32:38,000

I'm about to get into this flight simulator, right?

501

00:32:38,000 --> 00:32:41,000

But it's not like a simulator. It's like real life.

502

00:32:41,000 --> 00:32:44,000

The pilot has died for some reason.

503

00:32:44,000 --> 00:32:46,000

I'm the one they turned you to land the plane.

504

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

I get on the horse and say, hello?

505

00:32:49,000 --> 00:32:53,000

Hello? Air traffic control, talk? We had a flight.

506

00:32:53,000 --> 00:32:56,000

This beast land these people safely, man.

507

00:32:56,000 --> 00:32:59,000

And he says, yes, that's my task.

508

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

On the primary flight display.

509

00:33:02,000 --> 00:33:05,000

As with Jamie's test, Terri is effectively flying blind.

510

00:33:05,000 --> 00:33:11,000

He has to use all of his years of experience to give Adam every detail he could need.

511

00:33:11,000 --> 00:33:14,000

I tell you to put the nose down, you push forward.

512

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

When I tell you to bring the nose up, you pull back.

513

00:33:17,000 --> 00:33:22,000

This time, there's a strong headwind, and that's making the plane bump around a fair bit.

514

00:33:23,000 --> 00:33:25,000

But Terri and Adam keep their cool.

515

00:33:26,000 --> 00:33:28,000

It's easier when they have someone guiding me through it.

516

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

Terri was a fantastic teacher over the headset.

517

00:33:32,000 --> 00:33:34,000

I want you to start your descent.

518

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

Okay.

519

00:33:35,000 --> 00:33:40,000

He gave me lots of good guidance about my attitude and my altitude and my heading.

520

00:33:40,000 --> 00:33:46,000

He was paying attention to enough of the stuff that I felt comfortable and I started noticing things.

521

00:33:46,000 --> 00:33:49,000

I started seeing my airspeed slowing down. I'd speed it up.

522

00:33:49,000 --> 00:33:50,000

Okay, pull the nose up.

523

00:33:51,000 --> 00:33:55,000

He got me into this zone and I was able to land the plane.

524

00:33:56,000 --> 00:33:59,000

This was so much fun.

525

00:34:04,000 --> 00:34:07,000

Okay, the fire truck will be there in a second to help you.

526

00:34:07,000 --> 00:34:11,000

When a civilian like me lands a plane like this, if it's ever happened,

527

00:34:11,000 --> 00:34:14,000

I'm sure the fire trucks are on their way out if only to bring champagne.

528

00:34:16,000 --> 00:34:19,000

Just like Jamie, it's mission accomplished.

529

00:34:19,000 --> 00:34:21,000

So it's hats off to Terri.

530

00:34:21,000 --> 00:34:23,000

You are a great teacher.

531

00:34:23,000 --> 00:34:26,000

His expertise helped devoid calamity.

532

00:34:26,000 --> 00:34:31,000

But as he's about to explain, there's an even easier way to land the plane.

533

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

Today's aircraft are so sophisticated, there's so much automation.

534

00:34:35,000 --> 00:34:40,000

It'd be as easy as setting up a couple switches and then just turning knobs to land.

535

00:34:40,000 --> 00:34:43,000

Basically, you turn on the autopilot, you select the speed,

536

00:34:43,000 --> 00:34:48,000

you control your heading and your altitude with these knobs,

537

00:34:48,000 --> 00:34:51,000

and then eventually when you're ready to land, selecting the approach.

538

00:34:51,000 --> 00:34:56,000

Wow, so that's it. You're just going to sit there and watch it happen.

539

00:34:56,000 --> 00:35:00,000

Yes, the systems today are made to be virtually feel safe.

540

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

The autopilot of modern planes cannot only fly, they can land too.

541

00:35:05,000 --> 00:35:11,000

So that means that a passenger being talked into land is just never going to happen.

542

00:35:11,000 --> 00:35:13,000

So how are we going to call this one?

543

00:35:13,000 --> 00:35:18,000

Well, you and I both failed miserably when it came to landing a plane on our own with no help,

544

00:35:18,000 --> 00:35:23,000

but Terry was successfully able to talk each of us into a safe landing.

545

00:35:23,000 --> 00:35:27,000

Well, we can't call it confirmed because it's never actually happened.

546

00:35:27,000 --> 00:35:30,000

Nor would it ever have to happen these days.

547

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

If that situation never arose now, modern planes are so advanced they could virtually land themselves.

548

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

So we call it plausible.

549

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

I agree. Plausible it is.

550

00:35:48,000 --> 00:35:50,000

Dude, that was incredible.

551

00:36:18,000 --> 00:36:23,000

The grand finale is the free fall catch up myth.

552

00:36:23,000 --> 00:36:27,000

Is it really possible to give someone a 15 second head start

553

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

and still catch them up in free fall because of your streamlined body position?

554

00:36:34,000 --> 00:36:37,000

You are crazy.

555

00:36:37,000 --> 00:36:41,000

In the wind tunnel proof of concept, the myth looked promising.

556

00:36:42,000 --> 00:36:48,000

But the guys won't know for sure until they take it to the max and jump out of a plane.

557

00:36:48,000 --> 00:36:55,000

So it's back to skydance skydiving where Tori is just about to risk it all to get his wings.

558

00:36:55,000 --> 00:37:02,000

Tori is doing this last jump tandem and we have a skydiver that's going to be chasing after him to

see if he can catch up.

559

00:37:02,000 --> 00:37:10,000

I'm a little worried about this one because logistically, it's a little more complicated than just throwing a dummy out of a plane.

560

00:37:10,000 --> 00:37:14,000

Logistically more difficult but essentially the same.

561

00:37:14,000 --> 00:37:17,000

You really need to test this myth.

562

00:37:17,000 --> 00:37:23,000

Relax Tori because you'll have Carrie to hold your hand on the way up, just not on the way down.

563

00:37:23,000 --> 00:37:28,000

Okay you guys, this is the big one. It's the free fall catch up.

564

00:37:28,000 --> 00:37:34,000

So you jump out, get a 15 second head start and somebody else jumps out and tries to catch up to you.

565

00:37:34,000 --> 00:37:38,000

I'll be timing the whole thing. Once you jump, I start the timer, wait 15 seconds

566

00:37:38,000 --> 00:37:42,000

and I'm going to signal your catch up diver and let him go on after you.

567

00:37:42,000 --> 00:37:46,000

Alright, let's do it.

568

00:37:46,000 --> 00:37:50,000

It's a dangerous test, so let's get the plan straight.

569

00:37:50,000 --> 00:37:58,000

When the plane reaches an altitude of 15,000 feet, Tori and his tandem buddy will jump out.

570

00:37:58,000 --> 00:38:05,000

They'll assume the spread eagle position and will be falling at an incredible 120 miles per hour.

571

00:38:05,000 --> 00:38:14,000

15 seconds later, a specialist skydiver will emerge and by this point, Tori is already 3,000 feet away.

572

00:38:14,000 --> 00:38:21,000

By falling in an aerodynamic bullet-like pose, will he fall fast enough to catch up with Tori?

573

00:38:21,000 --> 00:38:26,000

It's a complicated plan so Tori takes a moment to get focused.

574

00:38:26,000 --> 00:38:34,000

I just got to remember to breathe, not f*** my pants, not throw up, not pass out, not scream like a little girl.

575

00:38:34,000 --> 00:38:40,000

Oh yeah, and open the parachute number six. It's an important one.

576

00:38:40,000 --> 00:38:48,000

As the free fall catch up express taxis, what does Grant, the veteran of one skydive, think is going to happen?

577

00:38:48,000 --> 00:38:50,000

I'm taking your tools.

578

00:38:50,000 --> 00:38:55,000

So we found that just by changing your body shape, by making yourself more streamlined,

579

00:38:55,000 --> 00:39:03,000

you can pick up a significant amount of speed, whether that's going to be enough for someone to catch up to another person

580

00:39:03,000 --> 00:39:07,000

over a 15 second head start, I just don't know.

581

00:39:07,000 --> 00:39:15,000

So Grant's convinced that this myth's a flight of fantasy, but back up in the plane, it's all too real for Tori.

582

00:39:18,000 --> 00:39:25,000

There's no turning back. It's time to make like Patrick Swayze and say adios amigo.

583

00:39:25,000 --> 00:39:30,000

The plane hit 15,000 feet. Tori's reminding himself to breathe and his eyes are bugging out.

584

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

The tandem skydiver pushes him to the edge right outside the door. He jumps.

585

00:39:38,000 --> 00:39:47,000

Tori and his buddy assume the spread eagle position and a small control shoot ensures their terminal velocity is 120 miles per hour,

586

00:39:47,000 --> 00:39:50,000

matching Swayze's speed in the movie.

587

00:39:50,000 --> 00:39:55,000

I count 15 seconds into the signal to catch up skydiver and jump out after him.

588

00:39:55,000 --> 00:40:03,000

He just soared down as fast as a bullet and then everything just kind of went white.

589

00:40:03,000 --> 00:40:09,000

At the moment catch up skydiver Nick Bales, Tori was already 3,000 feet away.

590

00:40:09,000 --> 00:40:17,000

But by assuming the bullet position, Nick hits an incredible top speed of 250 miles per hour.

591

00:40:18,000 --> 00:40:23,000

More than twice the speed of Tori and very, very dangerous.

592

00:40:23,000 --> 00:40:29,000

Incredibly, after only 20 seconds and just as Tori is about to deploy their shoot,

593

00:40:29,000 --> 00:40:34,000

Nick not only catches up, but he actually overtakes them.

594

00:40:35,000 --> 00:40:37,000

It's a mind-blowing result.

595

00:40:41,000 --> 00:40:46,000

Totally back down to earth dude and the screams of excitement just don't stop.

596

00:40:47,000 --> 00:40:54,000

That was insane.

597

00:40:54,000 --> 00:40:57,000

So did the guy catch up to you or what?

598

00:40:57,000 --> 00:41:00,000

Yeah, we jumped out 15 seconds later.

599

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

He jumped and right as we pulled our shoot he was like right next to us.

600

00:41:04,000 --> 00:41:05,000

You're kidding.

601

00:41:05,000 --> 00:41:06,000

He ain't kidding Greg.

602

00:41:06,000 --> 00:41:16,000

Even with Tori's 15 second head start, Nick the chase skydiver covered nearly 7,500 feet in only 20

seconds.

603

00:41:17,000 --> 00:41:22,000

Catching up with Tori just in time.

604

00:41:22,000 --> 00:41:26,000

Right before we pulled our shoot I looked over and the guy had caught up.

605

00:41:26,000 --> 00:41:28,000

We pulled our shoot and he kept going.

606

00:41:28,000 --> 00:41:29,000

So we confirmed this one.

607

00:41:29,000 --> 00:41:37,000

The first two tests might have looked a little shaky, but it's a big thumbs up for Point Break Myth Number 3.

608

00:41:37,000 --> 00:41:43,000

And courtesy of a great action movie, it's been an adrenaline filled time.

609

00:41:43,000 --> 00:41:47,000

All that's left is for the team to wrap it up.

610

00:41:47,000 --> 00:41:49,000

Alright, so let's have a summary for today.

611

00:41:49,000 --> 00:41:53,000

4,000 feet, said busted plus we'll confirm.

612

00:41:53,000 --> 00:41:54,000

That one's busted.

613

00:41:54,000 --> 00:41:56,000

Alright, free fall conversation.

614

00:41:56,000 --> 00:41:57,000

Busted.

615

00:41:57,000 --> 00:41:59,000

Yeah, I got the answer to this one.

616

00:41:59,000 --> 00:42:00,000

Totally busted.

617

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

No way you can hear anything while you're in free fall.

618

00:42:03,000 --> 00:42:05,000

And then finally, can you catch up to someone?

619

00:42:05,000 --> 00:42:08,000

You can absolutely catch up to somebody.

620

00:42:08,000 --> 00:42:12,000

With a 15 second head start, that's incredible.

621

00:42:13,000 --> 00:42:14,000

Good job!

622

00:42:14,000 --> 00:42:15,000

What a great day.

623

00:42:15,000 --> 00:42:16,000

It's a long day.

624

00:42:16,000 --> 00:42:18,000

We're going to get a good walk off into the sunset.

625

00:42:18,000 --> 00:42:19,000

Alright, let's go.

626

00:42:21,000 --> 00:42:22,000

Are you excited?

627

00:42:22,000 --> 00:42:23,000

It was your first skydive.

628

00:42:23,000 --> 00:42:24,000

Oh my gosh.

629

00:42:24,000 --> 00:42:25,000

That was a great day.

630

00:42:25,000 --> 00:42:27,000

How are you going to top that one?

631

00:42:27,000 --> 00:42:28,000

I don't know.

632

00:42:34,000 --> 00:42:40,000

Do you realize that talking to the landing is an idea I got from a fan who sat next to me on the plane?

633

00:42:40,000 --> 00:42:43,000

I get great ideas from fans all the time.

634

00:42:43,000 --> 00:42:48,000

So many in fact that we are doing another MythBusters viewer special.

635

00:42:48,000 --> 00:42:54,000

So if you've got an idea that doesn't totally suck, log on to [discovery.com slash mythbusters](http://discovery.com/mythbusters).

636

00:42:54,000 --> 00:42:57,000

And if we like it, it just may make it on the air.