

1

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

Let's see what we got here.

2

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

20,000 emails.

3

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

Hi, this is Adam.

4

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

That is a good thing.

5

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

Oh, hold on just a second.

6

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

Can you?

7

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

Hi, this is Adam.

8

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

Yeah, that's a terrific idea.

9

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

Can you hold on just a second?

10

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

I'm getting another call.

11

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

Hi, this is Adam.

12

00:00:41,000 --> 00:00:50,000

Okay, everybody, hold on just a second.

13

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

Coming through.

14

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

Coming through.

15

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

Coming through.

16

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

Coming through.

17

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

Coming through.

18

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

Coming through.

19

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

Coming through.

20

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

What the heck was that?

21

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

Suggestions.

22

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

But for stuff we got wrong or stuff we should retest?

23

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

All of the above.

24

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

Sounds like we have someone to finish business.

25

00:01:23,000 --> 00:01:30,000

What's all this?

26

00:01:30,000 --> 00:01:33,000

This is a bit of unfinished business for us.

27

00:01:33,000 --> 00:01:38,000

Every single letter here represents a fan's request that we either A, retest a story they

28

00:01:38,000 --> 00:01:42,000

think we got wrong or B, take a new tack on an old story.

29

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

Is any of it any good?

30

00:01:44,000 --> 00:01:47,000

Actually, there is a bunch of really fine material in here.

31

00:01:47,000 --> 00:01:51,000

We've got stories about holding on to hand grenades to keep them from going off.

32

00:01:51,000 --> 00:01:58,000

Fans that want us to revisit some aspect of our old Spy Car episodes specifically involving

33

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

the tire bursting tax.

34

00:02:01,000 --> 00:02:05,000

And we've got a story about reloading automatic pistols.

35

00:02:05,000 --> 00:02:09,000

Can you really do it as fast as they do in the movies?

36

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

Anything else?

37

00:02:10,000 --> 00:02:14,000

Yes, the first one I think we should tackle involves video games.

38

00:02:14,000 --> 00:02:19,000

Fans want to know if you're playing a video game that is representing a real world skill,

39

00:02:19,000 --> 00:02:23,000

can the video game make you better at that actual skill?

40

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

Video games is a teaching aid.

41

00:02:25,000 --> 00:02:27,000

Yes, I think we should test that.

42

00:02:27,000 --> 00:02:28,000

That sounds great.

43

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

I'm up for it.

44

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

All right, let's do it.

45

00:02:30,000 --> 00:02:35,000

In the video game special, the Mythbusters had a blast.

46

00:02:35,000 --> 00:02:39,000

But fans say there's unfinished business.

47

00:02:39,000 --> 00:02:44,000

Because Adam and Jamie didn't test an idea that's as old as gaming itself.

48

00:02:44,000 --> 00:02:48,000

Can virtual practice provide real world skills?

49

00:02:48,000 --> 00:02:52,000

To find out, Adam and Jamie first need a blank slate.

50

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

Four!

51

00:03:09,000 --> 00:03:15,000

When it came time to choose a skill that video games might make us better at, we ended up choosing golf.

52

00:03:16,000 --> 00:03:18,000

Hop in, fancy pants.

53

00:03:18,000 --> 00:03:20,000

All right, let's go play golf.

54

00:03:20,000 --> 00:03:26,000

It turned out a fun discussion that neither of us had ever played a game of golf in his entire life,

55

00:03:26,000 --> 00:03:29,000

either in real life or in the virtual space.

56

00:03:29,000 --> 00:03:32,000

Thus, golf it is and golf is perfect.

57

00:03:34,000 --> 00:03:39,000

We're here at one of the most beautiful and certainly one of the most famous golf courses in the world,

58

00:03:39,000 --> 00:03:42,000

the legendary Pebble Beach Golf Plants.

59

00:03:42,000 --> 00:03:51,000

The fact that Adam and I with absolutely no knowledge of golf whatsoever are playing our very first game here is,

60

00:03:51,000 --> 00:03:56,000

well, it's kind of a travesty actually, but what are you going to do?

61

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

Well, luckily for the course, that travesty will have to wait,

62

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

because first it's time to swing for science.

63

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

At this point, neither Adam nor I have played any golf at all.

64

00:04:10,000 --> 00:04:15,000

The first thing we're going to do before anything else is we're going to take a swing here on camera

65

00:04:15,000 --> 00:04:20,000

in front of this high-tech golf swing analysis system.

66

00:04:20,000 --> 00:04:26,000

And we're going to compare it to a later analysis that we'll do after we've received training and played a game of golf.

67

00:04:29,000 --> 00:04:33,000

Having a good swing is one of the key skills for all golfers.

68

00:04:34,000 --> 00:04:37,000

There it is, in all its glory.

69

00:04:37,000 --> 00:04:45,000

So precisely comparing swings, pre- and post-training, will be one of two crucial pieces of data.

70

00:04:46,000 --> 00:04:48,000

That felt terrible.

71

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

And with the pre-swings in the can, it's onto the second metric,

72

00:04:52,000 --> 00:04:56,000

comparing their before and after scores on the course.

73

00:04:57,000 --> 00:05:00,000

And for that, our golfing greenhorns,

74

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

Shall we play?

75

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

must fare to the fairway.

76

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

We're going to investigate improvement. We need a baseline to compare that improvement to.

77

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

I think we're supposed to go that way.

78

00:05:09,000 --> 00:05:15,000

That means we need a control, and that means Jamie and I are going to play golf as the blank slate Neophytes we really are.

79

00:05:16,000 --> 00:05:19,000

I've never played a game from scratch before.

80

00:05:19,000 --> 00:05:23,000

We're going to tally up those scores and then separate for some real training.

81

00:05:23,000 --> 00:05:27,000

Jamie's going to spend a day getting trained by a machine. I'm going to spend a day getting trained by a person.

82

00:05:27,000 --> 00:05:29,000

Do we have any balls?

83

00:05:29,000 --> 00:05:32,000

And you get those little stick things, right?

84

00:05:32,000 --> 00:05:39,000

So the training, we will reconvene on the golf course, play the same holes, and tally up and see just who has improved the most.

85

00:05:42,000 --> 00:05:47,000

Coupled with the swing analysis, the guys are pulling out all the stops.

86

00:05:47,000 --> 00:05:48,000

Go for it, sir.

87

00:05:48,000 --> 00:05:51,000

And first to tee off, it's Jamie.

88

00:05:56,000 --> 00:05:59,000

Who can literally only get better.

89

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

What do I know about golf?

90

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

Maybe you need a different club for that.

91

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

Seems like it's as good as any.

92

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

Well, most of my knowledge centers on the aerodynamic qualities of the dimples on a golf ball,

93

00:06:10,000 --> 00:06:14,000

which I seem to recall applying to a car to improve its gas mileage.

94

00:06:14,000 --> 00:06:16,000

That's the coolest thing ever.

95

00:06:16,000 --> 00:06:22,000

Beyond that, I understand there's something that you hit the ball with to make it go specific places.

96

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

I don't think you're supposed to use the tee every time.

97

00:06:25,000 --> 00:06:27,000

And that's about it.

98

00:06:28,000 --> 00:06:31,000

Oh, that was beautiful, Jamie.

99

00:06:32,000 --> 00:06:36,000

By hook or by crook, the guys slowly approach the green.

100

00:06:36,000 --> 00:06:39,000

Oh, hey, Jamie.

101

00:06:39,000 --> 00:06:41,000

Uh-oh, sand pit.

102

00:06:43,000 --> 00:06:44,000

Uh-oh, uh-oh.

103

00:06:46,000 --> 00:06:47,000

Same sand pit.

104

00:06:47,000 --> 00:06:50,000

And that's where the fun really begins.

105

00:06:50,000 --> 00:06:52,000

Oh, that's bad.

106

00:06:54,000 --> 00:06:56,000

But eventually, they escape the sand.

107

00:06:56,000 --> 00:06:58,000

Hey!

108

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

Hope, hope.

109

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

Nice.

110

00:07:04,000 --> 00:07:06,000

And get down to the business end.

111

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

Putting.

112

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

Looks like it slopes that way.

113

00:07:09,000 --> 00:07:13,000

I know enough of watching golf that you want to account for the slope and the momentum.

114

00:07:16,000 --> 00:07:18,000

I mean, come on. I know a little bit about physics.

115

00:07:21,000 --> 00:07:22,000

In the hole.

116

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

In the hole.

117

00:07:27,000 --> 00:07:35,000

This is a very interesting process, trying to learn a game as complicated as golf without being told anything.

118

00:07:35,000 --> 00:07:36,000

There we go.

119

00:07:36,000 --> 00:07:37,000

Not bad.

120

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

It's pretty clear that Jamie and I are improving certain things.

121

00:07:42,000 --> 00:07:44,000

Dude, that was so close.

122

00:07:44,000 --> 00:07:49,000

But it's also clear that it is this mountain of knowledge that we're not even touching.

123

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

It feels like sort of stabbing around in the dark with a fork trying to kill a bear.

124

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

We should have been able to do this in four.

125

00:07:58,000 --> 00:07:59,000

Oh.

126

00:07:59,000 --> 00:08:01,000

That's a par four.

127

00:08:05,000 --> 00:08:10,000

Taking a break from the fairway, what's next for unfinished business?

128

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

So what was the issue with how we did spike our tax?

129

00:08:12,000 --> 00:08:17,000

Well, fans noted that while we correctly replicated spikes we'd seen in movies.

130

00:08:17,000 --> 00:08:18,000

There we go.

131

00:08:19,000 --> 00:08:21,000

Heterohedral in shape and spike.

132

00:08:22,000 --> 00:08:26,000

They also noted that those would let air out of the tires a lot more efficiently if they were hollow.

133

00:08:26,000 --> 00:08:29,000

Well, that kind of makes sense and we can easily test that.

134

00:08:29,000 --> 00:08:31,000

I know. I think we should.

135

00:08:34,000 --> 00:08:38,000

Hollow tax should make for a better getaway gadget.

136

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

But will they immediately stop the chase car first time every time?

137

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

In our previous spike car episode, our spikes looked like this.

138

00:08:49,000 --> 00:08:54,000

But fans have told us that they want hollow tax and that is where this stuff comes in.

139

00:08:54,000 --> 00:08:57,000

This is a bunch of hollow steel tubing.

140

00:08:57,000 --> 00:09:00,000

I'm going to use it to fashion some hollow spikes.

141

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

Now I could just bend and cut and weld each spike individually,

142

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

but I'm a big believer in the assembly line process.

143

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

So this bending, this is actually the first step in my assembly line for these spikes.

144

00:09:18,000 --> 00:09:21,000

It's the first step in a four-part process.

145

00:09:21,000 --> 00:09:23,000

I love blacksmithing.

146

00:09:23,000 --> 00:09:26,000

So what's next for our resident queue?

147

00:09:26,000 --> 00:09:30,000

Step two of my assembly line process, the cutting.

148

00:09:35,000 --> 00:09:39,000

So now there's two halves of one spike and there you go.

149

00:09:39,000 --> 00:09:41,000

That's how that puppy is going to work.

150

00:09:41,000 --> 00:09:44,000

Cut out a bunch of these, start to weld them together.

151

00:09:44,000 --> 00:09:47,000

Boom! We have our hollow spikes.

152

00:09:47,000 --> 00:09:51,000

With Adam cutting corners for science, it's soon onwards and upwards.

153

00:09:51,000 --> 00:09:55,000

Step three of my assembly line process, the welding.

154

00:09:57,000 --> 00:10:02,000

You may recognize the rig I'm going to use for welding as the one I built for the first episode,

155

00:10:02,000 --> 00:10:04,000

and it works like this.

156

00:10:04,000 --> 00:10:07,000

Look at that. You sit the two parts in there and weld in the middle.

157

00:10:07,000 --> 00:10:09,000

Bang! You're done. Isn't that cool?

158

00:10:09,000 --> 00:10:12,000

Because only a small weld is required per tack,

159

00:10:12,000 --> 00:10:16,000

it's not long before Adam sealed the deal on all 50.

160

00:10:16,000 --> 00:10:20,000

Ah, awesome. That's the last one.

161

00:10:22,000 --> 00:10:26,000

Now, normally if I was a cop making my own road spikes on the weekends,

162

00:10:26,000 --> 00:10:29,000

I would leave them this color because they blend in with the road.

163

00:10:29,000 --> 00:10:33,000

But we're making a television show and I want these things to be bright.

164

00:10:34,000 --> 00:10:38,000

So step four of my assembly line process is to paint them bright pink

165

00:10:38,000 --> 00:10:40,000

so we can see them on camera.

166

00:10:41,000 --> 00:10:44,000

Aw, yeah! Look at that!

167

00:10:44,000 --> 00:10:46,000

So pretty!

168

00:10:46,000 --> 00:10:49,000

It's worth covering why the tack is the structure that it is.

169

00:10:49,000 --> 00:10:53,000

Why two 90-degree angles join perpendicularly at the center?

170

00:10:53,000 --> 00:10:58,000

Well, it's because when you do that, what you end up with is called a tetrahedral arrangement.

171

00:10:58,000 --> 00:11:01,000

A tetrahedron is a four-sided regular polygon,

172

00:11:01,000 --> 00:11:03,000

one of the platonic solids.

173

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

In layman's terms, it means one point is always facing up

174

00:11:07,000 --> 00:11:10,000

and that means it's ready to pierce the tire.

175

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

That's the theory.

176

00:11:13,000 --> 00:11:17,000

But at the runway, will it be licensed to kill?

177

00:11:17,000 --> 00:11:22,000

To find out if you can gain real-world skills from video games...

178

00:11:22,000 --> 00:11:24,000

I went off the cliffs!

179

00:11:24,000 --> 00:11:27,000

There were cliffs!

180

00:11:27,000 --> 00:11:31,000

Adam and Jamie are attempting to play golf.

181

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

See the flag right there?

182

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

I do. It's another one.

183

00:11:34,000 --> 00:11:36,000

I'm not sure if you can see it.

184

00:11:36,000 --> 00:11:38,000

I'm not sure.

185

00:11:38,000 --> 00:11:40,000

I'm not sure.

186

00:11:40,000 --> 00:11:42,000

I'm not sure.

187

00:11:42,000 --> 00:11:44,000

I'm not sure.

188

00:11:44,000 --> 00:11:46,000

I'll throw a golf.

189

00:11:46,000 --> 00:11:48,000

See the flag right there?

190

00:11:48,000 --> 00:11:50,000

I do. It's another stick.

191

00:11:50,000 --> 00:11:52,000

They should just call this game sticks.

192

00:11:52,000 --> 00:11:58,000

Sticks and balls.

193

00:11:58,000 --> 00:12:01,000

They'll call the myth based on two tests,

194

00:12:01,000 --> 00:12:05,000

a pre- and post-training swing analysis

195

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

and a before-and-after score comparison.

196

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

There we go.

197

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

right here that Jamie and I know absolutely nothing about the game of golf.

198

00:12:18,000 --> 00:12:21,600

Where'd it go?

199

00:12:21,600 --> 00:12:24,000

I think it's gone.

200

00:12:24,000 --> 00:12:27,320

But as far as you know what these clubs do.

201

00:12:27,320 --> 00:12:29,800

Okay, feed the ball.

202

00:12:29,800 --> 00:12:31,200

Why there's so many of them?

203

00:12:31,200 --> 00:12:33,800

Pretend that ball owes you money.

204

00:12:33,800 --> 00:12:34,800

Nice!

205

00:12:34,800 --> 00:12:35,800

What they're good for?

206

00:12:35,800 --> 00:12:37,480

I'm going with a five iron.

207

00:12:37,480 --> 00:12:38,480

Okay.

208

00:12:38,480 --> 00:12:39,800

I don't know why.

209

00:12:39,800 --> 00:12:47,480

Being no prior golfing experience is the only way to see if video game training can work.

210

00:12:47,480 --> 00:12:49,600

And after sinking the final pot.

211

00:12:49,600 --> 00:12:50,600

Give me a high five.

212

00:12:50,600 --> 00:12:53,600

God, that is such bull.

213

00:12:53,600 --> 00:12:57,800

What are you, 12?

214

00:12:57,800 --> 00:13:00,200

We now know the score is to beat.

215

00:13:00,200 --> 00:13:02,320

You beat me.

216

00:13:02,320 --> 00:13:03,320

Woohoo!

217

00:13:03,320 --> 00:13:05,440

Yes, yes, yes, yes.

218

00:13:05,440 --> 00:13:07,240

But seriously.

219

00:13:07,240 --> 00:13:10,800

I guess now it's time for us to go away and get some learning and come on back and try

220

00:13:10,800 --> 00:13:12,440

this contest again.

221

00:13:12,440 --> 00:13:17,160

That's what it's about, isn't it?

222

00:13:17,160 --> 00:13:23,040

Back at the shop, Jamie plugs in and goes to work upgrading his internal golf app.

223

00:13:23,040 --> 00:13:27,960

There are a lot of different virtual golf games out there, but we've chosen one in particular

224

00:13:27,960 --> 00:13:32,800

called John Daly's Pro Stroke because it claims to help you improve your swing.

225

00:13:32,800 --> 00:13:35,520

Now a golfer's swing is crucial to his game.

226

00:13:35,520 --> 00:13:42,560

So I'm going to see if it helps me improve mine because I could improve a great deal.

227

00:13:42,560 --> 00:13:50,360

So we're on the first hole and I've got to go 440 yards to get that ball into the hole.

228

00:13:50,360 --> 00:13:57,520

I'm going to have to hit it as hard as I can, which means that I'm going to have to come

229

00:13:57,520 --> 00:13:59,520

all the way up.

230

00:13:59,520 --> 00:14:04,720

Using the game's motion capture wand, Jamie's off and swinging.

231

00:14:04,920 --> 00:14:09,520

And despite being instructed what club to use and when.

232

00:14:09,520 --> 00:14:13,720

Okay, so it says I need to use a three iron.

233

00:14:13,720 --> 00:14:16,720

Oops.

234

00:14:16,720 --> 00:14:18,720

What'd I do?

235

00:14:18,720 --> 00:14:22,720

His virtual start is as bad as his real world start.

236

00:14:22,720 --> 00:14:25,720

I bumped the ball and it only went a foot.

237

00:14:25,720 --> 00:14:27,720

That was bad.

238

00:14:27,720 --> 00:14:31,720

Watching me practice with this software, you might think there's no way it's going to actually

239

00:14:31,720 --> 00:14:33,720

help me improve my game.

240

00:14:33,720 --> 00:14:35,720

Did I overshoot that?

241

00:14:35,720 --> 00:14:39,720

But if there's one thing I've learned on this show, it's to not be so sure of myself.

242

00:14:39,720 --> 00:14:41,720

I'm back where I was.

243

00:14:41,720 --> 00:14:44,720

So we've got to give it its due chance.

244

00:14:44,720 --> 00:14:46,720

Where's my caddy?

245

00:14:46,720 --> 00:14:54,720

A double digit start is not great, but Jamie soon realizes that there is information he can glean

from the game.

246

00:14:54,720 --> 00:14:57,720

At this point I'm noticing a whole bunch of stuff.

247

00:14:57,720 --> 00:15:03,720

I guess I'm going to try to mimic what he's actually doing physically and we'll see whether that helps.

248

00:15:03,720 --> 00:15:07,720

And it does seem to be very exacting about what it requires.

249

00:15:07,720 --> 00:15:13,720

While I'm in the rough, the little subtleties of a slight change of the angle of the swing,

250

00:15:13,720 --> 00:15:17,720

the head of the club and a certain orientation to the ball.

251

00:15:17,720 --> 00:15:19,720

Well, I'm not in the fan pit.

252

00:15:19,720 --> 00:15:28,720

So this is pointing out that even the most minute variations on that are going to make a huge difference out on the field.

253

00:15:31,720 --> 00:15:34,720

After two hours of intense practice.

254

00:15:34,720 --> 00:15:35,720

Nice.

255

00:15:35,720 --> 00:15:36,720

Bogey.

256

00:15:36,720 --> 00:15:37,720

I made a bogey.

257

00:15:37,720 --> 00:15:40,720

Jamie's swing seems to be improving.

258

00:15:40,720 --> 00:15:42,720

Looks like I got fairly close actually.

259

00:15:42,720 --> 00:15:46,720

He's also learning how to read the wind and the greens.

260

00:15:46,720 --> 00:15:51,720

Well, it is teaching me that I need to account for the angle of the train.

261

00:15:51,720 --> 00:15:54,720

Something that's reflected in his scores.

262

00:15:54,720 --> 00:15:56,720

Oh my goodness.

263

00:15:56,720 --> 00:15:58,720

I made par.

264

00:15:58,720 --> 00:16:03,720

But will any of this help him back in the real world, as the myth would suggest?

265

00:16:03,720 --> 00:16:11,720

I've spent a day with this golf teaching program and I did dramatically better here than I did out on the actual course.

266

00:16:11,720 --> 00:16:14,720

How about that for a shot? I made my first birdie.

267

00:16:14,720 --> 00:16:22,720

Now, does that mean when I go back out on the course, I'm going to do dramatically better there because of what this has taught me?

268

00:16:22,720 --> 00:16:24,720

That's what we're testing.

269

00:16:29,720 --> 00:16:37,720

When Adam and Jamie recently took aim at grenades, there was fire in the hole.

270

00:16:37,720 --> 00:16:46,720

But fans have found a new detonation drama.

271

00:16:46,720 --> 00:16:48,720

So get a grip.

272

00:16:48,720 --> 00:16:49,720

Get a grip yourself.

273

00:16:49,720 --> 00:16:52,720

No, no, no. That is actually the name of the story that we're doing.

274

00:16:52,720 --> 00:16:59,720

There is a TV show called The Bridge and on this show, a bad guy took a mother with her kids and locked them in a shed.

275

00:16:59,720 --> 00:17:05,720

But before he locked them inside, he handed the mom a live grenade so that she's holding onto it,

276

00:17:05,720 --> 00:17:11,720

knowing that her ability to hold onto it is her only line between life and certain death.

277

00:17:11,720 --> 00:17:15,720

And after a couple of hours, she can barely hold on any longer.

278

00:17:15,720 --> 00:17:21,720

Her forearms all cramped and she's just about to let go when the hero shows up and saves the day.

279

00:17:21,720 --> 00:17:24,720

But here's the question.

280

00:17:24,720 --> 00:17:27,720

Is holding onto a grenade really that difficult?

281

00:17:27,720 --> 00:17:31,720

Well, I hope when we go to test this, we can use an inert grenade.

282

00:17:31,720 --> 00:17:33,720

That was the plan, yes.

283

00:17:33,720 --> 00:17:37,720

Well, do you mind if I put something a little extra in there, a little surprise, maybe?

284

00:17:37,720 --> 00:17:39,720

Something to raise the stakes?

285

00:17:39,720 --> 00:17:40,720

Just a little.

286

00:17:40,720 --> 00:17:42,720

That sounds good. Let's do it.

287

00:17:44,720 --> 00:17:45,720

Some more, Zada!

288

00:17:45,720 --> 00:17:50,720

If I'm going to test these myths' ability to hold onto a grenade for more than a couple of hours,

289

00:17:50,720 --> 00:17:53,720

I could just sit on the couch and do it while the camera roll.

290

00:17:53,720 --> 00:17:55,720

That's it.

291

00:17:55,720 --> 00:17:58,720

But where is the television interest in that, I ask you?

292

00:17:58,720 --> 00:18:04,720

Oh, no, no, no. We are going to conduct this experiment in an experiment conducting kind of place.

293

00:18:04,720 --> 00:18:06,720

Good enough.

294

00:18:06,720 --> 00:18:12,720

A room in which I will be locked in for a couple of hours to see how well I can hold onto a grenade.

295

00:18:15,720 --> 00:18:20,720

With Adam's flat pack pad signed, sealed and delivered.

296

00:18:20,720 --> 00:18:23,720

Now that's an experimental space.

297

00:18:23,720 --> 00:18:28,720

It's over to Jamie, who's preparing some extra motivation.

298

00:18:30,720 --> 00:18:33,720

To try to replicate the pressure the woman in the clip was feeling,

299

00:18:33,720 --> 00:18:37,720

I think it's important that our genuine grenade not be completely inert.

300

00:18:37,720 --> 00:18:41,720

So I've rigged a little consequence for Adam if he lets go.

301

00:18:41,720 --> 00:18:44,720

Let's just say he's in for a shock.

302

00:18:45,720 --> 00:18:51,720

Both Jamie and Adam are trying to make sure that everything matches the clip, including...

303

00:18:51,720 --> 00:18:52,720

Nice outfit.

304

00:18:52,720 --> 00:18:56,720

Well, never let it be said I'm not willing to go the extra mile for science.

305

00:18:57,720 --> 00:19:00,720

And with that, it's go time.

306

00:19:00,720 --> 00:19:02,720

Three, two, one.

307

00:19:02,720 --> 00:19:04,720

There we go.

308

00:19:06,720 --> 00:19:10,720

In the TV show, the woman had to hold onto the grenade for about two hours.

309

00:19:10,720 --> 00:19:12,720

So far it doesn't feel so bad.

310

00:19:12,720 --> 00:19:17,720

But the thing is there's a spring behind this that wants to flip that lever away.

311

00:19:17,720 --> 00:19:20,720

So over time, this could be really difficult.

312

00:19:20,720 --> 00:19:22,720

A lot harder than you think.

313

00:19:23,720 --> 00:19:28,720

25 minutes in and Jamie's prediction is turning out true.

314

00:19:29,720 --> 00:19:34,720

I have to say, I seriously thought this is going to be just a ridiculous cakewalk.

315

00:19:34,720 --> 00:19:38,720

But I am starting to feel a little fatigue in my hands.

316

00:19:38,720 --> 00:19:44,720

Well, I'm not exactly sure what Jamie set up in terms of his consequences.

317

00:19:44,720 --> 00:19:49,720

I have to tell you that it adds a genuine psychological aspect,

318

00:19:49,720 --> 00:19:53,720

knowing that I will unleash some version of Hellfire.

319

00:19:53,720 --> 00:19:57,720

If I let go of this, it definitely makes it a little bit more accurate.

320

00:19:59,720 --> 00:20:05,720

Adam's basic instinct is to hang on for dear life.

321

00:20:05,720 --> 00:20:08,720

But will he go the distance?

322

00:20:20,720 --> 00:20:28,720

Next up, they're returning to the runway for Spy Car 2.0.

323

00:20:31,720 --> 00:20:33,720

Do you have to tailgate me like that?

324

00:20:33,720 --> 00:20:35,720

No, but it's fun.

325

00:20:35,720 --> 00:20:36,720

Shall we set up the course?

326

00:20:36,720 --> 00:20:37,720

Yeah.

327

00:20:41,720 --> 00:20:44,720

Our plan today is pretty straightforward for a Mythbusters car day.

328

00:20:44,720 --> 00:20:46,720

In general, it's a little bit of driving.

329

00:20:47,720 --> 00:20:49,720

And a little bit of mayhem.

330

00:20:51,720 --> 00:20:56,720

In specific, it's about a quarter mile course starting with a straightaway.

331

00:20:56,720 --> 00:20:57,720

Last one.

332

00:20:57,720 --> 00:21:02,720

Jamie will drive down that straightaway in a pickup truck at about 40 miles an hour.

333

00:21:02,720 --> 00:21:04,720

And I'm going to chase him about three car lengths behind.

334

00:21:04,720 --> 00:21:10,720

At a certain point, he'll drop his load of tax and then make a U-turn followed by a slalom.

335

00:21:10,720 --> 00:21:13,720

Obviously, by chasing, I'm going to drive over those tax,

336

00:21:13,720 --> 00:21:20,720

and I've got to follow him through that U-turn and that slalom as closely as I can, if I can at all.

337

00:21:20,720 --> 00:21:26,720

Our goal is to see how well our new HoloTax work compared to the old non-Holo ones.

338

00:21:26,720 --> 00:21:29,720

There's no doubt that HoloTax will puncture the tires,

339

00:21:29,720 --> 00:21:33,720

but will it stop the car stone dead as many viewers claim?

340

00:21:34,720 --> 00:21:35,720

Are you ready, Adam?

341

00:21:35,720 --> 00:21:37,720

Dude, I'm ready. Let's do this.

342

00:21:38,720 --> 00:21:39,720

Okay.

343

00:21:39,720 --> 00:21:44,720

HoloTax on the road in three, two, one, go.

344

00:21:47,720 --> 00:21:49,720

Oh, this is going to be fun.

345

00:21:51,720 --> 00:21:53,720

All right. We're at the speed.

346

00:21:53,720 --> 00:21:55,720

Jamie's got his bucket ready.

347

00:21:58,720 --> 00:21:59,720

Here it goes.

348

00:22:04,720 --> 00:22:05,720

Whoa, whoa, whoa, whoa.

349

00:22:05,720 --> 00:22:06,720

Oh, yeah.

350

00:22:06,720 --> 00:22:08,720

Oh, I feel him in my tires.

351

00:22:10,720 --> 00:22:11,720

Oh, now I'm making the turn.

352

00:22:12,720 --> 00:22:14,720

Okay. Hey, I'm still making the turn.

353

00:22:16,720 --> 00:22:18,720

Yeah. Yeah, I'm still making the turn.

354

00:22:20,720 --> 00:22:21,720

Whoa. Whoa.

355

00:22:22,720 --> 00:22:23,720

Oh, f\*\*\*.

356

00:22:27,720 --> 00:22:29,720

Go on. Go. Go. Go. Go.

357

00:22:32,720 --> 00:22:34,720

Now that's what I call a result.

358

00:22:34,720 --> 00:22:37,720

That was freaking awesome.

359

00:22:37,720 --> 00:22:40,720

So I'm driving behind Jamie when, like, it's Johnny Appleseed of Death.

360

00:22:40,720 --> 00:22:43,720

He starts sprinkling these steel tacks along the road.

361

00:22:43,720 --> 00:22:46,720

I drive right over them, and immediately I start hearing them.

362

00:22:46,720 --> 00:22:48,720

Tuck it, tuck it, tuck it, tuck it, tuck it in my car.

363

00:22:50,720 --> 00:22:54,720

And then almost as fast, I start hearing my ribs hit the ground,

364

00:22:54,720 --> 00:22:57,720

and the car rolled to a complete halt about 300 feet later.

365

00:22:57,720 --> 00:23:00,720

Go on, go, go, go, go.

366

00:23:00,720 --> 00:23:03,720

That is an effective tool for stopping cars.

367

00:23:04,720 --> 00:23:10,720

Yep, just 15 seconds after impact, Adam was brought to a grinding halt

368

00:23:10,720 --> 00:23:12,720

as all four tires got trashed.

369

00:23:12,720 --> 00:23:15,720

One of the things I noticed about this particular design

370

00:23:15,720 --> 00:23:19,720

is that if they stick into the tire, they form a nice tube

371

00:23:19,720 --> 00:23:22,720

through which air can flow and deflate the tire quite quickly.

372

00:23:22,720 --> 00:23:27,720

But if the tire is moving really fast, they can sling back out again,

373

00:23:27,720 --> 00:23:31,720

and instead of leaving a narrow hole that will close up

374

00:23:31,720 --> 00:23:33,720

like the solid spikes did,

375

00:23:33,720 --> 00:23:37,720

they're cutting a rubber plug out and taking it with them.

376

00:23:37,720 --> 00:23:39,720

And it's pretty cool.

377

00:23:39,720 --> 00:23:41,720

No, I want to start this wrap up by saying,

378

00:23:41,720 --> 00:23:44,720

I don't think we got the tacks wrong on the first try

379

00:23:44,720 --> 00:23:47,720

because we were imitating tacks we've seen in movies, right?

380

00:23:47,720 --> 00:23:48,720

Yeah.

381

00:23:48,720 --> 00:23:51,720

All right, but with our new hollow tacks, were the fans right?

382

00:23:51,720 --> 00:23:55,720

Yes, they're deflating tires in seconds as opposed to minutes with the other one.

383

00:23:55,720 --> 00:23:58,720

Totally confirmed. Let's get out of here and a car that runs.

384

00:24:02,720 --> 00:24:06,720

With one piece of unfinished business now finished,

385

00:24:09,720 --> 00:24:11,720

it's back to the hurt locker.

386

00:24:11,720 --> 00:24:13,720

These safety goggles are starting to give me a headache.

387

00:24:13,720 --> 00:24:18,720

Where Adam's testing if he can derail a detonation by gripping a grenade.

388

00:24:18,720 --> 00:24:24,720

I've been holding this grip so long that I actually can feel

389

00:24:24,720 --> 00:24:26,720

that my fingers are a little bit weaker.

390

00:24:26,720 --> 00:24:30,720

I can feel the spring of the spoon wanting to push my fingers outwards.

391

00:24:30,720 --> 00:24:35,720

That is interesting and not a little scary.

392

00:24:38,720 --> 00:24:40,720

The reason Adam is struggling is down to cramp.

393

00:24:40,720 --> 00:24:45,720

Because the muscles in his forearm and wrist have been contracting for more than an hour,

394

00:24:45,720 --> 00:24:47,720

the chemical balance inside is out of whack,

395

00:24:47,720 --> 00:24:50,720

which causes the muscles to contract more than normal.

396

00:24:50,720 --> 00:24:52,720

Now, not only is that painful,

397

00:24:52,720 --> 00:24:56,720

but it means that Adam is not in full control over what his arm is doing.

398

00:24:56,720 --> 00:24:58,720

So he may just let go yet.

399

00:24:58,720 --> 00:25:00,720

That's the theory.

400

00:25:00,720 --> 00:25:02,720

How you doing?

401

00:25:03,720 --> 00:25:05,720

What are you, a Marionette?

402

00:25:05,720 --> 00:25:11,720

But because Adam's grasping with a light touch, he's able to keep most of the cramp at bay.

403

00:25:12,720 --> 00:25:15,720

And while it is undoubtedly uncomfortable,

404

00:25:15,720 --> 00:25:18,720

ow, ow, ow, ow, ow.

405

00:25:20,720 --> 00:25:23,720

It's not long before time's up.

406

00:25:23,720 --> 00:25:27,720

There it is. Two hours. I'm still alive.

407

00:25:27,720 --> 00:25:29,720

I just want to point out that in the show,

408

00:25:29,720 --> 00:25:33,720

she was saying that her arm was all cramped up and really hurting.

409

00:25:33,720 --> 00:25:36,720

But I don't feel anything like severe cramping.

410

00:25:36,720 --> 00:25:41,720

I can easily go for probably a couple more hours at least before, I don't know,

411

00:25:41,720 --> 00:25:44,720

I'd switch hands and I get another four hours.

412

00:25:45,720 --> 00:25:51,720

Yep, despite the odd twinge, Adam got a grip with way less hassle than the clip.

413

00:25:51,720 --> 00:25:52,720

And that's not all.

414

00:25:52,720 --> 00:25:55,720

So I was thinking, why take the risk of getting cramps at all?

415

00:25:55,720 --> 00:25:58,720

I don't love this. I don't love it. It's too wide.

416

00:25:58,720 --> 00:26:01,720

I mean, this woman had access to all sorts of stuff.

417

00:26:03,720 --> 00:26:05,720

My pantyhose.

418

00:26:05,720 --> 00:26:10,720

Stuff she could have used to tie down the spoon of the grenade.

419

00:26:11,720 --> 00:26:15,720

Oh, and I thought this experiment couldn't get less dig-fine.

420

00:26:15,720 --> 00:26:19,720

Surely that is going to be the easiest of all options.

421

00:26:19,720 --> 00:26:23,720

Yeah, that's what I'm talking about.

422

00:26:23,720 --> 00:26:26,720

I only had to sacrifice my dignity to make it happen.

423

00:26:26,720 --> 00:26:30,720

With a grenade bound and gagged, there's no chance of a boom.

424

00:26:32,720 --> 00:26:35,720

Until Adam takes one for the team.

425

00:26:35,720 --> 00:26:37,720

This one's for you.

426

00:26:37,720 --> 00:26:39,720

I'm also kind of curious about what's going to happen.

427

00:26:39,720 --> 00:26:42,720

Here we go. Three, two, one.

428

00:26:52,720 --> 00:26:54,720

That was beautiful.

429

00:26:58,720 --> 00:27:02,720

So the myth that you can't hold onto a grenade for longer than two hours?

430

00:27:02,720 --> 00:27:06,720

Totally busted. And I think in a mighty fine way.

431

00:27:09,720 --> 00:27:12,720

I'm going to go get a grenade.

432

00:27:19,720 --> 00:27:24,720

Can playing video games really set you up with real-world skills?

433

00:27:24,720 --> 00:27:29,720

To find out, Jamie's the test subject taming the technology.

434

00:27:29,720 --> 00:27:32,720

Bogey. I made a bogey.

435

00:27:32,720 --> 00:27:37,720

While Adam can't resist competing, courtesy of more traditional training.

436

00:27:37,720 --> 00:27:41,720

My training today is going to happen at the legendary Pebble Beach Golf Academy.

437

00:27:41,720 --> 00:27:45,720

Founded in 1996, it encompasses both the latest cutting-edge technology

438

00:27:45,720 --> 00:27:49,720

as well as some of the United States' best golf teachers.

439

00:27:49,720 --> 00:27:54,720

Mine today, Laird Small, was what a PGA's golf teacher of the year.

440

00:27:59,720 --> 00:28:02,720

Adam's receiving a solid grounding in the fundamentals.

441

00:28:02,720 --> 00:28:03,720

Here's your driver.

442

00:28:03,720 --> 00:28:07,720

The clubs, the grip, and the mechanics of the swing.

443

00:28:07,720 --> 00:28:12,720

Hey, look at that. Wow. That is spectacular.

444

00:28:12,720 --> 00:28:15,720

It went like that way. Yes.

445

00:28:15,720 --> 00:28:18,720

And after a full day of this traditional training,

446

00:28:18,720 --> 00:28:22,720

Adam has clearly lifted his game.

447

00:28:22,720 --> 00:28:26,720

I felt great. It's about refining your physical movements and your body memory

448

00:28:26,720 --> 00:28:29,720

until what you're about to do is predictable.

449

00:28:29,720 --> 00:28:30,720

Yes.

450

00:28:30,720 --> 00:28:34,720

And amazingly, I'm starting to see how it could actually work as a game.

451

00:28:34,720 --> 00:28:37,720

It is no longer a mystifying game to me.

452

00:28:37,720 --> 00:28:39,720

I now start to see its outlines and think,

453

00:28:39,720 --> 00:28:41,720

maybe I could actually play this.

454

00:28:41,720 --> 00:28:43,720

Yeah.

455

00:28:43,720 --> 00:28:47,720

Oh, yeah. Oh, yeah. Oh, yeah.

456

00:28:47,720 --> 00:28:48,720

Woo-hoo.

457

00:28:48,720 --> 00:28:51,720

I think I'm ready for the Heinemann.

458

00:28:52,720 --> 00:28:54,720

Back at the shop.

459

00:28:55,720 --> 00:28:57,720

It's really pretty out here.

460

00:28:57,720 --> 00:28:59,720

The Heinemann has also been puttin' in the hours,

461

00:28:59,720 --> 00:29:02,720

and he too is showing signs of improvement.

462

00:29:02,720 --> 00:29:04,720

I earned another trophy.

463

00:29:04,720 --> 00:29:05,720

Next.

464

00:29:05,720 --> 00:29:08,720

His swing seems less shoddy.

465

00:29:08,720 --> 00:29:12,720

196 yards. Partly seemed like I hit it at all.

466

00:29:12,720 --> 00:29:16,720

And he's picking up tips about club use.

467

00:29:16,720 --> 00:29:20,720

Okay, so I need to use a three-iron.

468

00:29:24,720 --> 00:29:25,720

Nice.

469

00:29:25,720 --> 00:29:27,720

As well as putting technique.

470

00:29:27,720 --> 00:29:29,720

All off to the side.

471

00:29:29,720 --> 00:29:32,720

I didn't compensate for the angle of the train,

472

00:29:32,720 --> 00:29:34,720

and I should have.

473

00:29:34,720 --> 00:29:38,720

But to find out if that all translates to real-world improvements,

474

00:29:38,720 --> 00:29:42,720

it's back to the beach to see if Jamie can pull this one out of the bag.

475

00:29:42,720 --> 00:29:44,720

But not quite yet.

476

00:29:47,720 --> 00:29:51,720

Over the years, we have done tons of stories about guns and ammo.

477

00:29:55,720 --> 00:30:00,720

Now fans want us to tackle the modern version of the Quick Draw.

478

00:30:00,720 --> 00:30:01,720

What's that exactly?

479

00:30:01,720 --> 00:30:05,720

Well, there's a classic trope in action movies when the hero empties his gun.

480

00:30:05,720 --> 00:30:10,720

He's able to reload in a ultra-superfast blink-and-you-miss fashion.

481

00:30:10,720 --> 00:30:12,720

And the fans want to know if that's actually possible.

482

00:30:12,720 --> 00:30:13,720

And so do I.

483

00:30:13,720 --> 00:30:14,720

Okay, then.

484

00:30:14,720 --> 00:30:16,720

Let's get shootin'.

485

00:30:19,720 --> 00:30:23,720

First up, Jamie and I are gonna try to shoot three full magazines.

486

00:30:23,720 --> 00:30:25,720

Of bullets as fast as we possibly can.

487

00:30:25,720 --> 00:30:28,720

Now this first test is about speed, not accuracy.

488

00:30:28,720 --> 00:30:32,720

And so the bullets we'll be using have this funny little pinched end.

489

00:30:32,720 --> 00:30:34,720

That's a blank, not a real bullet.

490

00:30:37,720 --> 00:30:41,720

Start shooting in three, two, one, go.

491

00:30:45,720 --> 00:30:49,720

Mechanically firing and reloading the gun is a pretty basic process.

492

00:30:49,720 --> 00:30:53,720

When the magazine is out, you press a button, out comes the magazine.

493

00:30:53,720 --> 00:30:57,720

You put another one in and you're ready to go again.

494

00:30:59,720 --> 00:31:04,720

But the thing you have to remember is that there's this horrific noise and percussion.

495

00:31:04,720 --> 00:31:09,720

It's a really kind of disturbing, violent action that is going on here.

496

00:31:09,720 --> 00:31:15,720

And so trying to put that sequence really smoothly together, it's not easy.

497

00:31:15,720 --> 00:31:17,720

Huh, that's it.

498

00:31:17,720 --> 00:31:19,720

38 seconds!

499

00:31:19,720 --> 00:31:21,720

You got slower towards the end there.

500

00:31:21,720 --> 00:31:28,720

Jamie's shoot speed was solid, but his magazine change was nothing like the slick and quick action heroes.

501

00:31:28,720 --> 00:31:29,720

My turn.

502

00:31:29,720 --> 00:31:31,720

Can Adam do any better?

503

00:31:31,720 --> 00:31:35,720

Three, two, one, go.

504

00:31:39,720 --> 00:31:43,720

In the annals of things that we learn while doing the shooting,

505

00:31:43,720 --> 00:31:47,720

in the annals of things that we learn while doing things that we don't normally do,

506

00:31:47,720 --> 00:31:49,720

that is up there.

507

00:31:49,720 --> 00:31:53,720

Just firing three magazines worth of bullets,

508

00:31:53,720 --> 00:31:58,720

my finger got exhausted and I stopped being able to go pop, pop, pop, pop, pop,

509

00:31:58,720 --> 00:32:00,720

and started going...

510

00:32:02,720 --> 00:32:03,720

Oh ho ho!

511

00:32:03,720 --> 00:32:05,720

What was my time?

512

00:32:05,720 --> 00:32:07,720

Uh, 27-66.

513

00:32:07,720 --> 00:32:08,720

Woohoo!

514

00:32:08,720 --> 00:32:12,720

At a rate of two trigger pulls per second with a reasonable reload,

515

00:32:12,720 --> 00:32:14,720

up the ante.

516

00:32:14,720 --> 00:32:16,720

But what if their shots had to count?

517

00:32:16,720 --> 00:32:18,720

A lot of work to load three magazines.

518

00:32:18,720 --> 00:32:20,720

Cue the live ammo.

519

00:32:20,720 --> 00:32:22,720

Here's the accuracy part of this test.

520

00:32:22,720 --> 00:32:24,720

Our goal is still to fire as fast as possible.

521

00:32:24,720 --> 00:32:27,720

Three, but this time to stay with all of our shots.

522

00:32:27,720 --> 00:32:30,720

Two, landing within this seven ring.

523

00:32:30,720 --> 00:32:32,720

One, go.

524

00:32:32,720 --> 00:32:44,720

Nice, we're done. You improved on your time the first one. 33 seconds.

525

00:32:44,720 --> 00:32:48,720

Marginally faster, but from reasonably close range,

526

00:32:48,720 --> 00:32:51,720

Jamie missed a stationary target several times.

527

00:32:51,720 --> 00:32:56,720

Well, looks like three landed outside the target area.

528

00:32:57,720 --> 00:33:00,720

And when Adam also misses the mark,

529

00:33:01,720 --> 00:33:04,720

with minimal improvement to his time,

530

00:33:04,720 --> 00:33:12,720

Hollywood's mythical depiction of the magazine reload is looking like film fiction.

531

00:33:12,720 --> 00:33:16,720

Adam and I have acquired some experience with guns over the years,

532

00:33:16,720 --> 00:33:21,720

but we're not that good of a metric as to rapid firing and reloading.

533

00:33:21,720 --> 00:33:26,720

We do have a guy that is though, and his name is Travis Tomasi.

534

00:33:28,720 --> 00:33:32,720

Travis Tomasi is a competition shooter with 18 years of experience.

535

00:33:32,720 --> 00:33:35,720

He is legendary at his ability to swap magazines.

536

00:33:38,720 --> 00:33:41,720

That's pretty cool. Thank you gentlemen.

537

00:33:41,720 --> 00:33:43,720

That's promising.

538

00:33:43,720 --> 00:33:47,720

But can he pull off that seemingly superhuman movie move

539

00:33:48,720 --> 00:33:50,720

while taking out the target?

540

00:33:50,720 --> 00:33:52,720

Go.

541

00:34:11,720 --> 00:34:13,720

Wow.

542

00:34:13,720 --> 00:34:16,720

That was amazing. What was his time?

543

00:34:16,720 --> 00:34:18,720

17 seconds.

544

00:34:18,720 --> 00:34:20,720

That was incredible.

545

00:34:20,720 --> 00:34:23,720

Watching Travis work is kind of like watching a machine gun.

546

00:34:23,720 --> 00:34:27,720

It's almost surreal because, I mean, he's moving so quickly

547

00:34:27,720 --> 00:34:29,720

that you can't really even see what he's doing,

548

00:34:29,720 --> 00:34:31,720

but the real test is right here.

549

00:34:31,720 --> 00:34:35,720

Not only was he doing it almost twice as fast as I was,

550

00:34:35,720 --> 00:34:39,720

he was pretty much hitting dead center on the target.

551

00:34:39,720 --> 00:34:41,720

You know what I like about this is for years on this show,

552

00:34:41,720 --> 00:34:44,720

we've been finding things that are really common in movies

553

00:34:44,720 --> 00:34:47,720

and demonstrating how ludicrous they are in real life,

554

00:34:47,720 --> 00:34:50,720

but in this case, we've done kind of the opposite.

555

00:34:50,720 --> 00:34:53,720

We've actually taken something that seems ludicrous in the movies

556

00:34:53,720 --> 00:34:56,720

and we've bettered it in real life. That's pretty cool.

557

00:34:56,720 --> 00:34:59,720

Yeah, that much lead being put through a pistol

558

00:34:59,720 --> 00:35:03,720

in that amount of time accurately, it's unreal.

559

00:35:03,720 --> 00:35:05,720

Let's get out of here. Okay.

560

00:35:15,720 --> 00:35:18,720

In addition to learning what it's like to play golf on a real course,

561

00:35:18,720 --> 00:35:20,720

we have also learned that proper playing of golf

562

00:35:20,720 --> 00:35:23,720

involves adhering to the rules of etiquette

563

00:35:23,720 --> 00:35:25,720

and there are many of them.

564

00:35:25,720 --> 00:35:27,720

Among the most important are,

565

00:35:27,720 --> 00:35:29,720

the green is for putting, not for sitting,

566

00:35:29,720 --> 00:35:33,720

not for your golf clubs and definitely not for lying down.

567

00:35:33,720 --> 00:35:35,720

Golf requires lots of concentration.

568

00:35:35,720 --> 00:35:38,720

It's totally frowned upon and yell on a golf course.

569

00:35:38,720 --> 00:35:41,720

And it's vital when teeing off to yell the customary,

570

00:35:41,720 --> 00:35:43,720

four to warn golfers ahead of you,

571

00:35:43,720 --> 00:35:46,720

lest you strike one of them unsuspectingly in the head.

572

00:36:00,720 --> 00:36:02,720

After a truly abysmal game of golf,

573

00:36:02,720 --> 00:36:04,720

Jamie and I went off to get some training.

574

00:36:04,720 --> 00:36:07,720

Him, by a video game. Where's my caddy?

575

00:36:07,720 --> 00:36:09,720

Me, by a person.

576

00:36:09,720 --> 00:36:11,720

We've come back to the lengths of Pebble Beach.

577

00:36:11,720 --> 00:36:14,720

I'm going to put those potential skills to the test.

578

00:36:14,720 --> 00:36:16,720

Remember, this isn't about whether machine learning

579

00:36:16,720 --> 00:36:18,720

is better than person learning.

580

00:36:18,720 --> 00:36:22,720

It's about whether learning from a video game has any efficacy at all.

581

00:36:22,720 --> 00:36:25,720

Whoops. That's one.

582

00:36:25,720 --> 00:36:27,720

I'm just here to provide a control.

583

00:36:27,720 --> 00:36:31,720

And control is what I hope I finally have over this guy right here.

584

00:36:31,720 --> 00:36:33,720

Let's get started.

585

00:36:33,720 --> 00:36:35,720

Having been trained by a pro.

586

00:36:35,720 --> 00:36:38,720

Nice. Cool. That felt good.

587

00:36:38,720 --> 00:36:42,720

Adam's first two shots show immediate improvement.

588

00:36:42,720 --> 00:36:46,720

That worked like exactly how I wanted it to work.

589

00:36:46,720 --> 00:36:52,720

The key question is, what happens to Jamie?

590

00:36:52,720 --> 00:36:54,720

Nice.

591

00:36:54,720 --> 00:36:59,720

Will his video game training result in any improvement at all?

592

00:36:59,720 --> 00:37:01,720

Ah.

593

00:37:01,720 --> 00:37:03,720

Well, not so far.

594

00:37:03,720 --> 00:37:06,720

In the real world, his swing is still unbalanced.

595

00:37:06,720 --> 00:37:08,720

He's not good at all.

596

00:37:08,720 --> 00:37:12,720

And without computer assistance, he's guessing which club to use when.

597

00:37:12,720 --> 00:37:14,720

Look, I'll try this one.

598

00:37:14,720 --> 00:37:18,720

Still not really sure why, but looks right to me.

599

00:37:18,720 --> 00:37:22,720

And that's reflected in the scores for the first hole.

600

00:37:22,720 --> 00:37:25,720

Traditional training has seen Adam score plummet,

601

00:37:25,720 --> 00:37:28,720

while Jamie's only betted his best by one shot.

602

00:37:28,720 --> 00:37:32,720

There are several things that caused me concern about the video game instruction.

603

00:37:32,720 --> 00:37:37,720

One of the key ones was that it seemed virtually impossible to miss the ball.

604

00:37:37,720 --> 00:37:42,720

Now, I know that it's possible to miss the ball.

605

00:37:42,720 --> 00:37:46,720

Well, you're on the fairway.

606

00:37:46,720 --> 00:37:48,720

I'm just saying.

607

00:37:48,720 --> 00:37:51,720

On hole two, although Adam's tee shot...

608

00:37:51,720 --> 00:37:53,720

That was terrible.

609

00:37:53,720 --> 00:37:55,720

...was less than ideal.

610

00:37:55,720 --> 00:38:00,720

Wow. You hear about rough, but boy, this stuff is practically jungle-like.

611

00:38:00,720 --> 00:38:05,720

His post-training recovery is the shot of the day.

612

00:38:05,720 --> 00:38:07,720

Nice.

613

00:38:07,720 --> 00:38:09,720

That felt pretty good.

614

00:38:09,720 --> 00:38:11,720

Try as he might.

615

00:38:11,720 --> 00:38:14,720

Jamie's not only unable to emulate Adam...

616

00:38:14,720 --> 00:38:18,720

Well, didn't go in a bunker anyway.

617

00:38:18,720 --> 00:38:21,720

He's also unable to better his own benchmarks.

618

00:38:21,720 --> 00:38:24,720

Oh. I could do better than that.

619

00:38:24,720 --> 00:38:29,720

As he takes one more shot on hole two than he did pre-training.

620

00:38:32,720 --> 00:38:36,720

And that's a pattern that continues on the final two holes.

621

00:38:36,720 --> 00:38:38,720

Right into the sand pit.

622

00:38:38,720 --> 00:38:42,720

So it's no surprise when Jamie stops trying to improve his own game

623

00:38:42,720 --> 00:38:45,720

and starts trying to sabotage Adam's.

624

00:38:45,720 --> 00:38:48,720

Adam and Daddy, I compliment you on your socks.

625

00:38:48,720 --> 00:38:52,720

Jamie, shut the f\*\*\* right now. Are you kidding?

626

00:38:52,720 --> 00:38:55,720

I'm just saying, I mean, they're really nice socks.

627

00:38:55,720 --> 00:38:57,720

It's not... okay.

628

00:39:00,720 --> 00:39:03,720

As they finally sink their final putts...

629

00:39:03,720 --> 00:39:04,720

Nice.

630

00:39:04,720 --> 00:39:08,720

Yes. That felt good and complete and not stupid.

631

00:39:08,720 --> 00:39:10,720

In terms of scores alone...

632

00:39:10,720 --> 00:39:14,720

Alright, let's tell him up our scores and have a beer.

633

00:39:14,720 --> 00:39:17,720

It's not looking good for the myth.

634

00:39:17,720 --> 00:39:21,720

Adam took ten fewer strokes on round two,

635

00:39:21,720 --> 00:39:24,720

meaning he improved by 25%.

636

00:39:24,720 --> 00:39:29,720

But Jamie, the key metric for the myth, took just two shots fewer,

637

00:39:29,720 --> 00:39:33,720

which statistically is no difference at all.

638

00:39:33,720 --> 00:39:35,720

But there's more data to come.

639

00:39:35,720 --> 00:39:37,720

Frankly, looking at the numbers,

640

00:39:37,720 --> 00:39:40,720

Jamie and I don't feel like they tell the whole story.

641

00:39:40,720 --> 00:39:44,720

Luckily, because we're thorough types, we did grab one other metric,

642

00:39:44,720 --> 00:39:47,720

unarguably the most important metric in the whole of golf,

643

00:39:47,720 --> 00:39:49,720

and that is the swing.

644

00:39:49,720 --> 00:39:53,720

Laird examined our swings both before and after training,

645

00:39:53,720 --> 00:39:55,720

and the results are pretty interesting.

646

00:39:55,720 --> 00:39:56,720

How did I do, Laird?

647

00:39:56,720 --> 00:39:57,720

Well, come on over.

648

00:39:57,720 --> 00:40:00,720

So you can see that as you swing the club back,

649

00:40:00,720 --> 00:40:03,720

you can see how your weight is more between your feet.

650

00:40:03,720 --> 00:40:08,720

You can see over here that you've landed beautifully on your left foot.

651

00:40:08,720 --> 00:40:10,720

Right foot's perpendicular to the ground.

652

00:40:10,720 --> 00:40:13,720

Laird, on a scale of one to ten, what would you say the comparison is?

653

00:40:13,720 --> 00:40:15,720

Well, I think on the first one, I'm going to give you a three.

654

00:40:15,720 --> 00:40:18,720

On what we finished up with, I give it eight and a half to a nine.

655

00:40:18,720 --> 00:40:19,720

I think he did really great.

656

00:40:19,720 --> 00:40:20,720

Wow.

657

00:40:20,720 --> 00:40:23,720

As on the course, Adam's improvement is immense.

658

00:40:23,720 --> 00:40:25,720

Can Jamie compete this time?

659

00:40:25,720 --> 00:40:32,720

The difference that we see is in terms of how much more range of motion you have.

660

00:40:32,720 --> 00:40:34,720

So because of that, you can develop more speed.

661

00:40:34,720 --> 00:40:38,720

By developing more speed, you have a chance to hit the golf ball farther.

662

00:40:38,720 --> 00:40:40,720

But what's the all-important score?

663

00:40:40,720 --> 00:40:42,720

On the first swing, I give you 1.5.

664

00:40:42,720 --> 00:40:47,720

The second swing, I'm going to give you a two at the best.

665

00:40:47,720 --> 00:40:52,720

There's not real any improvement in terms of the striking of the ball.

666

00:40:52,720 --> 00:40:55,720

There is some in the range of motion in your athleticism, so that's great.

667

00:40:55,720 --> 00:40:59,720

But in the delivery of the club to the ball, sorry, no improvement.

668

00:40:59,720 --> 00:41:00,720

Excellent.

669

00:41:00,720 --> 00:41:06,720

Yep, despite his hours spent flying solo, Jamie's swing is still not the thing.

670

00:41:06,720 --> 00:41:08,720

So what do you think, Game Jockey?

671

00:41:08,720 --> 00:41:12,720

You think we've answered the question as to whether video games can make you better at real world games?

672

00:41:12,720 --> 00:41:13,720

I think we have.

673

00:41:13,720 --> 00:41:14,720

And that answer would be?

674

00:41:14,720 --> 00:41:15,720

No.

675

00:41:15,720 --> 00:41:19,720

That's pretty definitive, shall we play another round of real golf?

676

00:41:19,720 --> 00:41:20,720

Sure, it's nice out here.

677

00:41:20,720 --> 00:41:21,720

I agree.

678

00:41:21,720 --> 00:41:24,720

I've learned some things about my swing I could tell you.

679

00:41:24,720 --> 00:41:25,720

Oh, shut up.