

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?

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

Suggestions.

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

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

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

All of the above.

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

Sounds like we have some unfinished business.

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

What's all this?

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

This is a bit of unfinished business for us.

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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.

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

Is any of it any good?

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

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

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

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

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

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

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

the tire bursting tax.

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

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

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00:02:04,000 --> 00:02:08,000

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

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

Anything else?

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00:02:09,000 --> 00:02:13,000

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

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00:02:13,000 --> 00:02:19,000

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

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

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

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

Video games is a teaching aid.

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

Yes, I think we should test that.

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

That sounds great.

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

I'm up for it.

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

All right, let's do it.

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00:02:30,000 --> 00:02:34,000

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

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00:02:34,000 --> 00:02:39,000

But fans say there's unfinished business.

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

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

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

Can virtual practice provide real world skills?

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

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

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

Four!

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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.

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

Hop in, fancy pants.

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

All right, let's go play golf.

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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.

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

Thus, golf it is and golf is perfect.

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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.

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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,

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

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

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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

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

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

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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.

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

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

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00:04:34,000 --> 00:04:36,000

There it is, in all its glory.

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00:04:37,000 --> 00:04:44,000

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

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

That felt terrible.

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

And with the pre-swinged 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.

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

And for that, our golfing greenhorns,

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

Shall we play?

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

must fare to the fairway.

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

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

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

I think we're supposed to go that way.

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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 blind slate Neophytes we really are.

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

I've never played a game from scratch before.

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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?

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00:05:32,000 --> 00:05:36,000

So for the training, we will reconvene on the golf course, play the same holes,

85

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

and tally up and see just who has improved the most.

86

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

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

87

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

Go for it, sir.

88

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

And first to tee off, it's Jamie.

89

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

Who can literally only get better.

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

What do I know about golf?

91

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

Maybe you need a different club for that.

92

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

Seems like it's as good as any.

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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,

94

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

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

95

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

That's the coolest thing ever.

96

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.

97

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

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

98

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

And that's about it.

99

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

Oh, that was beautiful, Jamie.

100

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

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

101

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

Oh, hey, Jamie.

102

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

Uh-oh, sand pit.

103

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

Uh-oh, uh-oh.

104

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

Same sand pit.

105

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

And that's where the fun really begins.

106

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

Oh, that's bad.

107

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

But eventually, they escape the sand.

108

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

Hey!

109

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

Hope, hope.

110

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

Nice.

111

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

And get down to the business end.

112

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

Putting.

113

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

Looks like it slopes that way.

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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.

115

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

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

116

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

In the hole.

117

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

In the hole.

118

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.

119

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

There we go.

120

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

Not bad.

121

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

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

122

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

Dude, that was so close.

123

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.

124

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.

125

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

We should have been able to do this in four.

126

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

Oh.

127

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

That's a par four.

128

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

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

129

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

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

130

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

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

131

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

There we go.

132

00:08:19,000 --> 00:08:22,000

Heterohedral in shape and spike heat.

133

00:08:22,000 --> 00:08:27,000

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

134

00:08:27,000 --> 00:08:29,000

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

135

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

I know. I think we should.

136

00:08:35,000 --> 00:08:38,000

Hollow tax should make for a better getaway gadget.

137

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

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

138

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

In our previous Spycar episode, our spikes looked like this.

139

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.

140

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

This is a bunch of hollow steel tubing.

141

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

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

142

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

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

143

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

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

144

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

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

145

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

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

146

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

I love blacksmithing.

147

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

So what's next for our resident queue?

148

00:09:26,000 --> 00:09:29,000

Step two of my assembly line process, the cutting.

149

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

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

150

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

That's how that puppy is going to work.

151

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

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

152

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

Boom! We have our hollow spikes.

153

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

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

154

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

Step three of my assembly line process, the welding.

155

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,

156

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

and it works like this.

157

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

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

158

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

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

159

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

Because only a small weld is required per tack,

160

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

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

161

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

Ah, awesome. That's the last one.

162

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

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

163

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

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

164

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

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

165

00:10:34,000 --> 00:10:40,000

So step four of my assembly line process is to paint them bright pink so we can see them on camera.

166

00:10:41,000 --> 00:10:46,000

Aw, yeah! Look at that! So pretty!

167

00:10:46,000 --> 00:10:50,000

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

168

00:10:50,000 --> 00:10:54,000

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

169

00:10:54,000 --> 00:10:59,000

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

170

00:10:59,000 --> 00:11:03,000

A tetrahedron is a four-sided regular polygon, one of the platonic solids.

171

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

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

172

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

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

173

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

That's the theory.

174

00:11:14,000 --> 00:11:18,000

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

175

00:11:29,000 --> 00:11:30,000

Tic-toc grandpa.

176

00:11:30,000 --> 00:11:35,000

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

177

00:11:35,000 --> 00:11:40,000

I went off the cliffs. There were cliffs!

178

00:11:40,000 --> 00:11:44,000

Adam and Jamie are attempting to play golf.

179

00:11:44,000 --> 00:11:45,000

See the flag right there?

180

00:11:45,000 --> 00:11:52,000

I do. It's another stick. They should just call this game sticks. Sticks and balls.

181

00:11:53,000 --> 00:12:00,000

They'll call the myth based on two tests, a pre- and post-training swing analysis

182

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

and a before-and-after score comparison.

183

00:12:05,000 --> 00:12:07,000

There we go.

184

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

It's worth repeating right here that Jamie and I know absolutely nothing about the game of golf.

185

00:12:20,000 --> 00:12:21,000

Where'd it go?

186

00:12:21,000 --> 00:12:23,000

I think it's gone.

187

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

But as far as, you know, what these clubs do...

188

00:12:27,000 --> 00:12:31,000

Okay, feed the ball. Why there's so many of them?

189

00:12:31,000 --> 00:12:33,000

Pretend that ball owes you money.

190

00:12:33,000 --> 00:12:34,000

Nice!

191

00:12:34,000 --> 00:12:36,000

What they're good for?

192

00:12:36,000 --> 00:12:37,000

I'm going with a five iron.

193

00:12:37,000 --> 00:12:38,000

Okay.

194

00:12:38,000 --> 00:12:39,000

I don't know why.

195

00:12:39,000 --> 00:12:45,000

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

196

00:12:47,000 --> 00:12:49,000

And after sinking the final putt...

197

00:12:49,000 --> 00:12:51,000

Give me a high five.

198

00:12:51,000 --> 00:12:53,000

God, that is such bull-***.

199

00:12:53,000 --> 00:12:55,000

What are you, 12?

200

00:12:57,000 --> 00:13:00,000

We now know the score is to beat.

201

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

You beat me.

202

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

Woo-hoo! Yes, yes, yes, yes.

203

00:13:05,000 --> 00:13:09,000

But seriously, I guess now it's time for us to go away and get some learning

204

00:13:09,000 --> 00:13:12,000

and come on back and try this contest again.

205

00:13:12,000 --> 00:13:14,000

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

206

00:13:15,000 --> 00:13:22,000

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

207

00:13:22,000 --> 00:13:25,000

There are a lot of different virtual golf games out there,

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00:13:25,000 --> 00:13:29,000

but we've chosen one in particular called John Daly's Pro Stroke

209

00:13:29,000 --> 00:13:32,000

because it claims to help you improve your swing.

210

00:13:32,000 --> 00:13:35,000

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

211

00:13:35,000 --> 00:13:40,000

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

212

00:13:41,000 --> 00:13:49,000

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

213

00:13:50,000 --> 00:13:57,000

I'm going to have to hit it as hard as I can, which means that I'm going to have to come all the way up.

214

00:13:58,000 --> 00:14:02,000

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

215

00:14:03,000 --> 00:14:04,000

Almost hit some people.

216

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

And despite being instructed what club to use and when...

217

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

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

218

00:14:15,000 --> 00:14:17,000

Oops. What'd I do?

219

00:14:17,000 --> 00:14:21,000

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

220

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

I bumped the ball and it only went a foot.

221

00:14:24,000 --> 00:14:25,000

That was bad.

222

00:14:26,000 --> 00:14:29,000

Watching me practice with this software, you might think,

223

00:14:29,000 --> 00:14:32,000

there's no way it's going to actually help me improve my game.

224

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

Did I overshoot that?

225

00:14:34,000 --> 00:14:38,000

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

226

00:14:39,000 --> 00:14:40,000

I'm back where I was.

227

00:14:40,000 --> 00:14:43,000

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

228

00:14:43,000 --> 00:14:44,000

Where's my caddy?

229

00:14:46,000 --> 00:14:48,000

A double digit start is not great,

230

00:14:48,000 --> 00:14:53,000

but Jamie soon realizes that there is information he can glean from the game.

231

00:14:53,000 --> 00:14:56,000

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

232

00:14:56,000 --> 00:15:01,000

I guess I'm going to try to mimic what he's actually doing physically

233

00:15:01,000 --> 00:15:03,000

and we'll see whether that helps.

234

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

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

235

00:15:07,000 --> 00:15:13,000

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

236

00:15:13,000 --> 00:15:17,000

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

237

00:15:18,000 --> 00:15:20,000

Well, I'm not in the sand pit.

238

00:15:20,000 --> 00:15:26,000

So this is pointing out that even the most minute variations on that

239

00:15:26,000 --> 00:15:28,000

are going to make a huge difference out on the field.

240

00:15:28,000 --> 00:15:34,000

After two hours of intense practice.

241

00:15:34,000 --> 00:15:35,000

Nice.

242

00:15:35,000 --> 00:15:36,000

Bogey.

243

00:15:36,000 --> 00:15:37,000

I made a bogey.

244

00:15:37,000 --> 00:15:40,000

Jamie's swing seems to be improving.

245

00:15:40,000 --> 00:15:42,000

Looks like I got fairly close actually.

246

00:15:42,000 --> 00:15:47,000

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

247

00:15:47,000 --> 00:15:52,000

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

248

00:15:52,000 --> 00:15:54,000

Something that's reflected in his scores.

249

00:15:54,000 --> 00:15:56,000

Oh my goodness.

250

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

I made par.

251

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

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

252

00:16:04,000 --> 00:16:10,000

I've spent a day with this golf teaching program and I did dramatically better here

253

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

than I did out on the actual course.

254

00:16:12,000 --> 00:16:13,000

How about that for a shot?

255

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

I made my first birdie.

256

00:16:15,000 --> 00:16:20,000

Now, does that mean when I go back out on the course, I'm going to do dramatically better there

257

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

because of what this has taught me?

258

00:16:23,000 --> 00:16:24,000

That's what we're testing.

259

00:16:29,000 --> 00:16:38,000

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

260

00:16:41,000 --> 00:16:45,000

But fans have found a new detonation drama.

261

00:16:47,000 --> 00:16:49,000

So get a grip.

262

00:16:49,000 --> 00:16:50,000

Get a grip yourself.

263

00:16:50,000 --> 00:16:51,000

No, no, no.

264

00:16:51,000 --> 00:16:53,000

That is actually the name of the story that we're doing.

265

00:16:53,000 --> 00:16:58,000

There is a TV show called The Bridge and on this show, a bad guy took a mother with her kids

266

00:16:58,000 --> 00:16:59,000

and locked them in a shed.

267

00:16:59,000 --> 00:17:04,000

But before he locked them inside, he handed the mom a live grenade.

268

00:17:04,000 --> 00:17:09,000

So that she's holding on to it, knowing that her ability to hold on to it is her only line

269

00:17:09,000 --> 00:17:12,000

between life and certain death.

270

00:17:12,000 --> 00:17:16,000

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

271

00:17:16,000 --> 00:17:21,000

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

272

00:17:23,000 --> 00:17:25,000

But here's the question.

273

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

Is holding on to a grenade really that difficult?

274

00:17:28,000 --> 00:17:32,000

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

275

00:17:32,000 --> 00:17:34,000

That was the plan, yes.

276

00:17:34,000 --> 00:17:38,000

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

277

00:17:38,000 --> 00:17:39,000

Something to raise the stakes?

278

00:17:39,000 --> 00:17:40,000

Just a little.

279

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

That sounds good. Let's do it.

280

00:17:46,000 --> 00:17:51,000

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

281

00:17:51,000 --> 00:17:54,000

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

282

00:17:54,000 --> 00:17:56,000

That's it.

283

00:17:56,000 --> 00:17:59,000

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

284

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

Oh, no, no, no.

285

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

We are going to conduct this experiment in an experiment conducting kind of place.

286

00:18:05,000 --> 00:18:07,000

Good enough.

287

00:18:07,000 --> 00:18:13,000

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

288

00:18:13,000 --> 00:18:23,000

With Adam's flat pack pad signed, sealing and delivered, now that's an experimental space.

289

00:18:23,000 --> 00:18:28,000

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

290

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

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

291

00:18:33,000 --> 00:18:37,000

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

292

00:18:37,000 --> 00:18:41,000

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

293

00:18:41,000 --> 00:18:45,000

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

294

00:18:45,000 --> 00:18:51,000

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

295

00:18:51,000 --> 00:18:53,000

Nice outfit.

296

00:18:53,000 --> 00:18:57,000

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

297

00:18:57,000 --> 00:19:01,000

And with that, it's go time.

298

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

Three, two, one.

299

00:19:03,000 --> 00:19:05,000

There we go.

300

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

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

301

00:19:10,000 --> 00:19:12,000

So far it doesn't feel so bad.

302

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

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

303

00:19:17,000 --> 00:19:20,000

So over time, this could be really difficult.

304

00:19:20,000 --> 00:19:23,000

A lot harder than you think.

305

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

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

306

00:19:29,000 --> 00:19:34,000

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

307

00:19:34,000 --> 00:19:38,000

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

308

00:19:39,000 --> 00:19:45,000

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

309

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

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

310

00:19:49,000 --> 00:19:54,000

Knowing that I will unleash some version of Hellfire if I let go of this,

311

00:19:54,000 --> 00:19:59,000

it definitely makes it a little bit more accurate.

312

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

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

313

00:20:05,000 --> 00:20:09,000

But will he go the distance?

314

00:20:24,000 --> 00:20:29,000

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

315

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

Do you have to tailgate me like that?

316

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

No, but it's fun.

317

00:20:36,000 --> 00:20:37,000

Shall we set up the course?

318

00:20:37,000 --> 00:20:38,000

Yeah.

319

00:20:42,000 --> 00:20:45,000

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

320

00:20:45,000 --> 00:20:50,000

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

321

00:20:52,000 --> 00:20:57,000

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

322

00:20:57,000 --> 00:20:58,000

Last one.

323

00:20:58,000 --> 00:21:02,000

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

324

00:21:02,000 --> 00:21:05,000

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

325

00:21:05,000 --> 00:21:09,000

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

326

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

coupled by a slalom.

327

00:21:11,000 --> 00:21:14,000

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

328

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

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

329

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

if I can at all.

330

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

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

331

00:21:27,000 --> 00:21:30,000

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

332

00:21:30,000 --> 00:21:34,000

But will it stop the car's stone dead, as many viewers claim?

333

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

Are you ready, Adam?

334

00:21:36,000 --> 00:21:38,000

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

335

00:21:38,000 --> 00:21:45,000

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

336

00:21:47,000 --> 00:21:50,000

Oh, this is going to be fun.

337

00:21:52,000 --> 00:21:54,000

All right. We're at the speed.

338

00:21:54,000 --> 00:21:56,000

Jamie's got his bucket ready.

339

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

Here it goes.

340

00:22:04,000 --> 00:22:06,000

Oh, ho, ho, ho.

341

00:22:06,000 --> 00:22:08,000

Oh, yeah. Oh, I feel him in my tires.

342

00:22:10,000 --> 00:22:12,000

Oh, now I'm making the turn.

343

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

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

344

00:22:15,000 --> 00:22:19,000

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

345

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

Oh. Oh.

346

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

Oh, s***.

347

00:22:27,000 --> 00:22:30,000

Go on, go, go, go, go.

348

00:22:32,000 --> 00:22:34,000

Now that's what I call a result.

349

00:22:34,000 --> 00:22:37,000

That was freaking awesome.

350

00:22:37,000 --> 00:22:41,000

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

351

00:22:41,000 --> 00:22:44,000

He starts sprinkling these steel tacks along the road.

352

00:22:44,000 --> 00:22:47,000

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

353

00:22:47,000 --> 00:22:50,000

I took a, took a, took a, took a, took a, took a, took a, took a, took a, my car.

354

00:22:51,000 --> 00:22:55,000

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

355

00:22:55,000 --> 00:22:59,000

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

356

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

No, no, no, no.

357

00:23:01,000 --> 00:23:04,000

That is an effective tool for stopping cars.

358

00:23:06,000 --> 00:23:11,000

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

359

00:23:11,000 --> 00:23:13,000

as all four tires got trashed.

360

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

One of the things I noticed about this particular design

361

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

is that if they stick into the tire, they form a nice tube through which air can flow

362

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

and deflate the tire quite quickly.

363

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

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

364

00:23:28,000 --> 00:23:34,000

and instead of leaving a narrow hole that will close up like the solid spikes did,

365

00:23:34,000 --> 00:23:38,000

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

366

00:23:38,000 --> 00:23:40,000

And it's pretty cool.

367

00:23:40,000 --> 00:23:42,000

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

368

00:23:42,000 --> 00:23:44,000

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

369

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

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

370

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

Yeah.

371

00:23:48,000 --> 00:23:51,000

All right. But with our new Holo tax, were the fans right?

372

00:23:51,000 --> 00:23:55,000

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

373

00:23:55,000 --> 00:23:58,000

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

374

00:24:02,000 --> 00:24:06,000

With one piece of unfinished business now finished,

375

00:24:09,000 --> 00:24:11,000

it's back to the Hurt Locker.

376

00:24:11,000 --> 00:24:14,000

These safety goggles are starting to give me a headache.

377

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

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

378

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

I've been holding this grip so long that I actually can feel that my fingers are a little bit weaker.

379

00:24:27,000 --> 00:24:31,000

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

380

00:24:31,000 --> 00:24:36,000

It is interesting and not a little scary.

381

00:24:37,000 --> 00:24:40,000

The reason Adam is struggling is down to cramp.

382

00:24:40,000 --> 00:24:44,000

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

383

00:24:44,000 --> 00:24:49,000

the chemical balance inside is out of whack, which causes the muscles to contract more than normal.

384

00:24:49,000 --> 00:24:55,000

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

385

00:24:55,000 --> 00:24:57,000

So he may just let go yet.

386

00:24:57,000 --> 00:24:59,000

That's the theory.

387

00:24:59,000 --> 00:25:01,000

How you doing?

388

00:25:01,000 --> 00:25:03,000

What are you, a Marionette?

389

00:25:04,000 --> 00:25:11,000

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

390

00:25:11,000 --> 00:25:15,000

And while it is undoubtedly uncomfortable,

391

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

it's not long before time's up.

392

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

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

393

00:25:27,000 --> 00:25:33,000

I just want to point out that in the show, she was saying that her arm was all cramped up and really hurting.

394

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

But I don't feel anything like severe cramping.

395

00:25:36,000 --> 00:25:44,000

I can easily go for probably a couple more hours at least before, I don't know, I'd switch hands and I'd get another four hours.

396

00:25:46,000 --> 00:25:51,000

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

397

00:25:51,000 --> 00:25:52,000

And that's not all.

398

00:25:52,000 --> 00:25:56,000

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

399

00:25:56,000 --> 00:25:59,000

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

400

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

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

401

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

My pantyhose.

402

00:26:06,000 --> 00:26:10,000

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

403

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

And I thought this experiment couldn't get less dignified.

404

00:26:15,000 --> 00:26:19,000

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

405

00:26:19,000 --> 00:26:21,000

Yeah.

406

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

That's what I'm talking about.

407

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

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

408

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

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

409

00:26:32,000 --> 00:26:35,000

Until Adam takes one for the team.

410

00:26:35,000 --> 00:26:36,000

This one's for you.

411

00:26:37,000 --> 00:26:39,000

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

412

00:26:39,000 --> 00:26:41,000

Here we go. Three, two, one.

413

00:26:41,000 --> 00:26:43,000

Ah!

414

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

That was beautiful.

415

00:26:58,000 --> 00:27:02,000

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

416

00:27:02,000 --> 00:27:06,000

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

417

00:27:12,000 --> 00:27:16,000

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

418

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

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

419

00:27:21,000 --> 00:27:23,000

Bogey. I made a bogey.

420

00:27:23,000 --> 00:27:28,000

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

421

00:27:28,000 --> 00:27:32,000

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

422

00:27:32,000 --> 00:27:34,000

I'm going to be playing the game.

423

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

I'm going to be playing the game.

424

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

I'm going to be playing the game.

425

00:27:38,000 --> 00:27:41,000

Today is going to happen at the legendary Pebble Beach Golf Academy.

426

00:27:41,000 --> 00:27:45,000

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

427

00:27:45,000 --> 00:27:48,000

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

428

00:27:49,000 --> 00:27:54,000

Mine today, Laird Small, was voted PGA's Golf Teacher of the Year.

429

00:27:59,000 --> 00:28:02,000

Adam's receiving a solid grounding in the fundamentals.

430

00:28:02,000 --> 00:28:03,000

Here's your driver.

431

00:28:03,000 --> 00:28:07,000

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

432

00:28:08,000 --> 00:28:11,000

Hey, look at that. Wow.

433

00:28:11,000 --> 00:28:12,000

That is spectacular.

434

00:28:12,000 --> 00:28:14,000

It went like that way.

435

00:28:14,000 --> 00:28:15,000

Yes.

436

00:28:15,000 --> 00:28:18,000

And after a full day of this traditional training,

437

00:28:18,000 --> 00:28:19,000

Wow.

438

00:28:19,000 --> 00:28:22,000

Adam has clearly lifted his game.

439

00:28:22,000 --> 00:28:23,000

I felt great.

440

00:28:23,000 --> 00:28:26,000

It's about refining your physical movements and your body memory

441

00:28:26,000 --> 00:28:29,000

until what you're about to do is predictable.

442

00:28:29,000 --> 00:28:30,000

Yes.

443

00:28:30,000 --> 00:28:34,000

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

444

00:28:34,000 --> 00:28:37,000

It is no longer a mystifying game to me.

445

00:28:37,000 --> 00:28:40,000

I now start to see its outlines and think,

446

00:28:40,000 --> 00:28:42,000

maybe I could actually play this.

447

00:28:42,000 --> 00:28:43,000

Yeah.

448

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

Oh, yeah.

449

00:28:46,000 --> 00:28:47,000

Oh, yeah.

450

00:28:47,000 --> 00:28:48,000

Oh, yeah.

451

00:28:48,000 --> 00:28:49,000

Woo-hoo.

452

00:28:49,000 --> 00:28:51,000

I think I'm ready for the Heinemann.

453

00:28:53,000 --> 00:28:54,000

Back at the shop.

454

00:28:56,000 --> 00:28:57,000

It's really pretty out here.

455

00:28:57,000 --> 00:29:00,000

The Heinemann has also been puttin' in the hours,

456

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

and he too is showing signs of improvement.

457

00:29:03,000 --> 00:29:05,000

I earned another trophy.

458

00:29:05,000 --> 00:29:06,000

Next.

459

00:29:06,000 --> 00:29:08,000

The swing seems less shoddy.

460

00:29:08,000 --> 00:29:10,000

196 yards?

461

00:29:10,000 --> 00:29:13,000

Hardly seem like I hit it at all.

462

00:29:13,000 --> 00:29:17,000

And he's picking up tips about club use.

463

00:29:17,000 --> 00:29:18,000

Okay.

464

00:29:18,000 --> 00:29:20,000

So I need to use a three-iron.

465

00:29:24,000 --> 00:29:25,000

Nice.

466

00:29:25,000 --> 00:29:28,000

As well as putting technique.

467

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

All off to the side.

468

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

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

469

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

and I should have.

470

00:29:34,000 --> 00:29:38,000

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

471

00:29:38,000 --> 00:29:43,000

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

472

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

But not quite yet.

473

00:29:47,000 --> 00:29:51,000

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

474

00:29:58,000 --> 00:30:02,000

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

475

00:30:02,000 --> 00:30:03,000

What's that exactly?

476

00:30:03,000 --> 00:30:07,000

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

477

00:30:07,000 --> 00:30:12,000

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

478

00:30:12,000 --> 00:30:15,000

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

479

00:30:15,000 --> 00:30:16,000

And so do I.

480

00:30:16,000 --> 00:30:17,000

Okay then.

481

00:30:17,000 --> 00:30:18,000

Let's get shootin'.

482

00:30:22,000 --> 00:30:26,000

First up, Jamie and I are going to try to shoot three full magazines of bullets

483

00:30:26,000 --> 00:30:28,000

as fast as we possibly can.

484

00:30:28,000 --> 00:30:31,000

Now this first test is about speed, not accuracy,

485

00:30:31,000 --> 00:30:35,000

and so the bullets will be using how this funny little pinched end,

486

00:30:35,000 --> 00:30:37,000

that's a blank, not a real bullet.

487

00:30:40,000 --> 00:30:44,000

Start shooting in three, two, one, go.

488

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

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

489

00:30:52,000 --> 00:30:56,000

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

490

00:30:56,000 --> 00:30:59,000

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

491

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

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

492

00:31:07,000 --> 00:31:11,000

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

493

00:31:11,000 --> 00:31:17,000

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

494

00:31:19,000 --> 00:31:20,000

That's it.

495

00:31:20,000 --> 00:31:21,000

38 seconds.

496

00:31:22,000 --> 00:31:24,000

He got slower towards the end there.

497

00:31:24,000 --> 00:31:30,000

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

498

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

My turn.

499

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

Can Adam do any better?

500

00:31:34,000 --> 00:31:37,000

Three, two, one, go.

501

00:31:42,000 --> 00:31:46,000

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

502

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

that is up there, just firing three magazines worth of bullets.

503

00:31:52,000 --> 00:31:57,000

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

504

00:31:57,000 --> 00:31:59,000

and I started to go...

505

00:32:03,000 --> 00:32:04,000

What was my time?

506

00:32:04,000 --> 00:32:06,000

27.66.

507

00:32:06,000 --> 00:32:07,000

Woohoo!

508

00:32:07,000 --> 00:32:13,000

At a rate of two trigger pulls per second with a reasonable reload, Adam has upped the ante.

509

00:32:13,000 --> 00:32:16,000

But what if their shots had to count?

510

00:32:16,000 --> 00:32:18,000

A lot of work to load three magazines.

511

00:32:18,000 --> 00:32:20,000

Cue the live ammo.

512

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

Here's the accuracy part of this test.

513

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

Our goal is still to fire as fast as possible.

514

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

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

515

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

Two, landing within this seven ring.

516

00:32:30,000 --> 00:32:31,000

One, go.

517

00:32:40,000 --> 00:32:41,000

Nicely done.

518

00:32:41,000 --> 00:32:43,000

You improved on your time the first one.

519

00:32:43,000 --> 00:32:44,000

33 seconds.

520

00:32:44,000 --> 00:32:51,000

Marginally faster, but from reasonably close range, Jamie missed a stationary target several times.

521

00:32:51,000 --> 00:32:56,000

Well, looks like three landed outside the target area.

522

00:32:57,000 --> 00:33:11,000

And when Adam also misses the mark, with minimal improvement to his time, Hollywood's mythical depiction of the magazine reload is looking like film fiction.

523

00:33:13,000 --> 00:33:17,000

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

524

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

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

525

00:33:22,000 --> 00:33:26,000

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

526

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

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

527

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

He is legendary at his ability to swap magazines.

528

00:33:39,000 --> 00:33:40,000

That's pretty cool.

529

00:33:40,000 --> 00:33:41,000

Thank you gentlemen.

530

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

That's promising.

531

00:33:44,000 --> 00:33:50,000

But can he pull off that seemingly superhuman movie move while taking out the target?

532

00:33:50,000 --> 00:33:51,000

Go.

533

00:34:13,000 --> 00:34:14,000

Claire.

534

00:34:14,000 --> 00:34:15,000

That was amazing.

535

00:34:15,000 --> 00:34:17,000

What was his time?

536

00:34:17,000 --> 00:34:18,000

17 seconds.

537

00:34:18,000 --> 00:34:20,000

17 seconds.

538

00:34:20,000 --> 00:34:22,000

That was incredible.

539

00:34:22,000 --> 00:34:25,000

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

540

00:34:25,000 --> 00:34:33,000

It's almost surreal because, I mean, he's moving so quickly that you can't really even see what he's doing, but the real test is right here.

541

00:34:33,000 --> 00:34:41,000

Not only was he doing it almost twice as fast as I was, he was pretty much hitting dead center on the target.

542

00:34:41,000 --> 00:34:49,000

You know what I like about this is for years on this show, we've been finding things that are

really common in movies and demonstrating how ludicrous they are in real life.

543

00:34:49,000 --> 00:34:51,000

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

544

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

We've actually taken something that seems ludicrous in the movies and we've bettered it in real life.

545

00:34:56,000 --> 00:34:57,000

That's pretty cool.

546

00:34:57,000 --> 00:35:05,000

Yeah, that much lead being put through a pistol in that amount of time accurately, it's unreal.

547

00:35:05,000 --> 00:35:06,000

Let's get out of here.

548

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

Okay.

549

00:35:12,000 --> 00:35:25,000

In addition to learning what it's like to play golf on a real course, we have also learned that proper playing of golf involves adhering to the rules of etiquette and there are many of them.

550

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

Among the most important are, the green is for putting, not for sitting, not for your golf clubs and definitely not for lying down.

551

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

Golf requires lots of concentration.

552

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

It's totally frowned upon and yell on a golf course.

553

00:35:38,000 --> 00:35:45,000

And it's vital when teeing off to yell the customary for to warn golfers ahead of you, lest you strike one of the months suspecting Lee in the head.

554

00:35:59,000 --> 00:36:05,000

After a truly abysmal game of golf, Jamie and I went off to get some training him by a video game.

555

00:36:05,000 --> 00:36:06,000

Where's my catty?

556

00:36:06,000 --> 00:36:07,000

We need by a person.

557

00:36:07,000 --> 00:36:10,000

Now we've come back to the lengths of Pebble Beach.

558

00:36:10,000 --> 00:36:13,000

I'm going to put those potential skills to the test.

559

00:36:13,000 --> 00:36:17,000

Remember, this isn't about whether machine learning is better than person learning.

560

00:36:17,000 --> 00:36:22,000

It's about whether learning from a video game has any efficacy at all.

561

00:36:22,000 --> 00:36:24,000

That's one.

562

00:36:24,000 --> 00:36:30,000

I'm just here to provide a control and control is what I hope I finally have over this guy right here.

563

00:36:30,000 --> 00:36:31,000

Let's get started.

564

00:36:31,000 --> 00:36:34,000

Having been trained by a pro.

565

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

Nice.

566

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

Cool. That felt good.

567

00:36:38,000 --> 00:36:42,000

Adam's first two shots show immediate improvement.

568

00:36:42,000 --> 00:36:45,000

That worked like exactly how I wanted it to work.

569

00:36:47,000 --> 00:36:51,000

The key question is what happens to Jamie?

570

00:36:51,000 --> 00:36:52,000

Nice.

571

00:36:52,000 --> 00:36:57,000

Will his video game training result in any improvement at all?

572

00:36:58,000 --> 00:37:00,000

Oh, f***.

573

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

Well, not so far.

574

00:37:01,000 --> 00:37:05,000

In the real world, his swing is still unbalanced.

575

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

That wasn't very good at all.

576

00:37:06,000 --> 00:37:11,000

And without computer assistance, he's guessing which club to use when.

577

00:37:11,000 --> 00:37:13,000

Look how I'll try this one.

578

00:37:13,000 --> 00:37:17,000

Still not really sure why, but looks right to me.

579

00:37:17,000 --> 00:37:20,000

And that's reflected in the scores for the first hole.

580

00:37:20,000 --> 00:37:27,000

Traditional training has seen Adam score plummet, while Jamie's only betted his best by one shot.

581

00:37:27,000 --> 00:37:30,000

There are several things that cause me concern about the video game instruction.

582

00:37:30,000 --> 00:37:35,000

And one of the key ones was that it seemed virtually impossible to miss the ball.

583

00:37:36,000 --> 00:37:39,000

Now, I know that it's possible to miss the ball.

584

00:37:44,000 --> 00:37:45,000

Well, you're on the fairway.

585

00:37:45,000 --> 00:37:46,000

I'm just saying.

586

00:37:46,000 --> 00:37:49,000

On hole two, although Adam's tee shot.

587

00:37:51,000 --> 00:37:52,000

That was terrible.

588

00:37:52,000 --> 00:37:54,000

Was less than ideal.

589

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

Well, you hear about rough, but boy, this stuff is practically jungle-like.

590

00:37:59,000 --> 00:38:03,000

His post-training recovery is the shot of the day.

591

00:38:04,000 --> 00:38:05,000

Nice.

592

00:38:06,000 --> 00:38:07,000

That felt pretty good.

593

00:38:08,000 --> 00:38:09,000

Try as he might.

594

00:38:09,000 --> 00:38:12,000

Jamie's not only unable to emulate Adam...

595

00:38:15,000 --> 00:38:17,000

Well, it didn't go in a bunker anyway.

596

00:38:17,000 --> 00:38:20,000

He's also unable to better his own benchmarks.

597

00:38:20,000 --> 00:38:21,000

Oh.

598

00:38:21,000 --> 00:38:23,000

I could do better than that.

599

00:38:23,000 --> 00:38:28,000

...as he takes one more shot on hole two than he did pre-training.

600

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

And that's a pattern that continues on the final two holes.

601

00:38:36,000 --> 00:38:37,000

Right into the sand pit.

602

00:38:37,000 --> 00:38:44,000

So it's no surprise when Jamie stops trying to improve his own game and starts trying to sabotage Adam's.

603

00:38:44,000 --> 00:38:46,000

Adam and I compliment you on your socks.

604

00:38:48,000 --> 00:38:49,000

Jamie, shut the f*** right now.

605

00:38:49,000 --> 00:38:50,000

Are you kidding?

606

00:38:50,000 --> 00:38:53,000

I'm just saying, I mean, they're really nice socks.

607

00:38:53,000 --> 00:38:54,000

It's not... okay.

608

00:38:58,000 --> 00:39:01,000

As they finally sink their final putts.

609

00:39:01,000 --> 00:39:02,000

Nice.

610

00:39:02,000 --> 00:39:03,000

Yes!

611

00:39:03,000 --> 00:39:06,000

That felt good and complete and not stupid.

612

00:39:06,000 --> 00:39:08,000

In terms of scores alone...

613

00:39:08,000 --> 00:39:11,000

Alright, let's tell them our scores and have a beer.

614

00:39:11,000 --> 00:39:12,000

Yeah.

615

00:39:12,000 --> 00:39:14,000

It's not looking good for the myth.

616

00:39:15,000 --> 00:39:18,000

Adam took ten fewer strokes on one hole.

617

00:39:18,000 --> 00:39:23,000

Adam took ten fewer strokes on round two, meaning he improved by 25%.

618

00:39:23,000 --> 00:39:28,000

But Jamie, the key metric for the myth, took just two shots fewer,

619

00:39:28,000 --> 00:39:31,000

which statistically is no difference at all.

620

00:39:33,000 --> 00:39:35,000

But there's more data to come.

621

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

Frankly, looking at the numbers, Jamie and I don't feel like they tell the whole story.

622

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

Luckily, because we're thorough types, we did grab one other metric,

623

00:39:43,000 --> 00:39:46,000

unarguably the most important metric in the whole of golf,

624

00:39:46,000 --> 00:39:48,000

and that is the swing.

625

00:39:48,000 --> 00:39:52,000

Laird examined our swings both before and after training,

626

00:39:52,000 --> 00:39:54,000

and the results are pretty interesting.

627

00:39:54,000 --> 00:39:55,000

How did I do, Laird?

628

00:39:55,000 --> 00:39:56,000

Well, come on over.

629

00:39:56,000 --> 00:39:59,000

So you can see that as you swing the club back,

630

00:39:59,000 --> 00:40:02,000

you can see how your weight is more between your feet.

631

00:40:02,000 --> 00:40:06,000

You can see over here that you've landed beautifully on your left foot.

632

00:40:07,000 --> 00:40:09,000

Right foot's perpendicular to the ground.

633

00:40:09,000 --> 00:40:12,000

Laird, on a scale of one to ten, what would you say the comparison is?

634

00:40:12,000 --> 00:40:14,000

Well, I think on the first one, I'm going to give you a three

635

00:40:14,000 --> 00:40:16,000

on what we finished up with.

636

00:40:16,000 --> 00:40:17,000

I give it eight and a half to a nine.

637

00:40:17,000 --> 00:40:18,000

I think he did really great.

638

00:40:18,000 --> 00:40:19,000

Wow.

639

00:40:19,000 --> 00:40:22,000

As on the course, Adam's improvement is immense.

640

00:40:22,000 --> 00:40:25,000

Can Jamie compete this time?

641

00:40:25,000 --> 00:40:31,000

The difference that we see is in terms of how much more range of motion you have.

642

00:40:31,000 --> 00:40:33,000

So because of that, you can develop more speed.

643

00:40:33,000 --> 00:40:37,000

By developing more speed, you have a chance to hit the golf ball farther.

644

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

But what's the all-important score?

645

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

On the first swing, give you 1.5.

646

00:40:42,000 --> 00:40:47,000

The second swing, I'm going to give you a two at the best.

647

00:40:47,000 --> 00:40:51,000

There's not real any improvement in terms of the striking of the ball.

648

00:40:51,000 --> 00:40:55,000

There is some in the range of motion in your athleticism, so that's great.

649

00:40:55,000 --> 00:40:59,000

But in the delivery of the club to the ball, sorry, no improvement.

650

00:40:59,000 --> 00:41:00,000

Excellent.

651

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

Yep, despite his hours spent flying solo, Jamie's swing is still not the thing.

652

00:41:06,000 --> 00:41:08,000

So what do you think, Game Jockey?

653

00:41:08,000 --> 00:41:13,000

Do you think we've answered the question as to whether video games can make you better at real world games?

654

00:41:13,000 --> 00:41:14,000

I think we have.

655

00:41:14,000 --> 00:41:15,000

And that answer would be?

656

00:41:15,000 --> 00:41:16,000

No.

657

00:41:16,000 --> 00:41:17,000

That's pretty definitive.

658

00:41:17,000 --> 00:41:19,000

Shall we play another round of real golf?

659

00:41:19,000 --> 00:41:21,000

Sure, it's nice out here.

660

00:41:21,000 --> 00:41:22,000

I agree.

661

00:41:22,000 --> 00:41:25,000

I've learned some things about my swing I could tell you.

662

00:41:25,000 --> 00:41:26,000

Oh, shut up.