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

Attention viewers, do not try anything you're about to see at home.

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

We're what you call experts.

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

On this super cool episode of Myth Musters,

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

it's all aboard for the second Alaska special.

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

We've got to keep our afloat!

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

As Master Savage and Commander Heinemann shiver their timbers.

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

I'm the boatman of the VICE!

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

In a world first attempt to build a mythical boat out of nothing but sawdust and ice,

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

Nihua, Cary, Grant, and Tori are on a Northern Exposure Collision course.

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

I'm a train CPR, don't worry!

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

Wrestling with the myth of a snow-pulled smash that's split a car completely in two.

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

Who are the Myth Busters?

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

Adam Savage.

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

Oh, hey!

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

And Jamie Heinemann.

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

We've got to try and shoot him in the head.

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00:01:06,000 --> 00:01:09,000

Between them more than 30 years of special effects experience.

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

That's pretty.

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

Joining them,

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

Tori Boleici,

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

Grant Imahara.

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

That was crazy.

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

And Cary Byron.

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

This is going to be a whole lot of fun, huh?

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

If they don't just tell the Myths,

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00:01:26,000 --> 00:01:28,000

they put them to the test.

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00:01:39,000 --> 00:01:42,000

Alaska, famed for its stunning scenery.

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00:01:42,000 --> 00:01:47,000

The 49th State is also shrouded in tall tales and outlandish legends.

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

Making it a virtual home away from home for the Myth Busters.

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

I know it's not a beret, but you gotta put this on.

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

What do we got? Cold weather myths?

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

We do.

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00:02:03,000 --> 00:02:05,000

It's time to do another Alaska special.

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00:02:06,000 --> 00:02:07,000

You got any ideas?

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00:02:07,000 --> 00:02:10,000

Well, as a matter of fact, there is one thing that I'm kind of curious about.

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00:02:10,000 --> 00:02:16,000

It's a material called Pycree that a guy named Pyke invented around World War II.

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00:02:16,000 --> 00:02:20,000

And this was made of frozen wood pulp and water.

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00:02:20,000 --> 00:02:25,000

And supposedly it made a mix that was harder than concrete when it froze.

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

And they were going to build an aircraft carrier out of it,

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00:02:27,000 --> 00:02:30,000

but they never got around to it because the war ended.

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

So as far as we know, no one's ever tried to build a boat out of this stuff.

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00:02:34,000 --> 00:02:35,000

That's correct.

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00:02:35,000 --> 00:02:36,000

Until us.

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00:02:37,000 --> 00:02:38,000

Yeah.

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00:02:40,000 --> 00:02:41,000

According to this myth,

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00:02:41,000 --> 00:02:44,000

in World War II with steel and iron in short supply,

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

an ingenious inventor came up with an entirely new concept.

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00:02:49,000 --> 00:02:54,000

Pycree, a mixture of ice and wood pulp that was supposedly so tough,

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00:02:54,000 --> 00:02:56,000

you could forge a fleet from it.

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00:02:56,000 --> 00:03:01,000

But before the Allies could build a frozen flotilla, the war ended.

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

Leaving this mythical question unanswered.

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00:03:04,000 --> 00:03:08,000

Can you really build a boat out of nothing but sawdust and ice?

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00:03:09,000 --> 00:03:12,000

An aircraft carrier made of sawdust and ice.

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00:03:12,000 --> 00:03:15,000

I really hope we haven't bitten off more than we can chew here.

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

Well, ultimately we are going to have to build some sort of boat out of Pycree.

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00:03:20,000 --> 00:03:24,000

But first I think we need to test its magical properties.

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00:03:24,000 --> 00:03:25,000

Such as?

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00:03:25,000 --> 00:03:27,000

Well, like, it's bulletproof.

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00:03:27,000 --> 00:03:33,000

It is tougher than concrete and it takes longer than ice to melt, supposedly.

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00:03:33,000 --> 00:03:35,000

But that sounds like a great plan of attack.

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00:03:35,000 --> 00:03:37,000

We'll test those properties here in San Francisco.

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00:03:37,000 --> 00:03:41,000

When we've got the information we need, we head up north to launch a Pycrete boat.

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00:03:41,000 --> 00:03:43,000

Yeah. Good.

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00:03:43,000 --> 00:03:51,000

It's a story that will ultimately see Adam and Jamie attempt to sail the Alaskan fjords in a beautiful Pycrete boat.

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00:03:51,000 --> 00:03:53,000

It's getting worse.

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00:03:53,000 --> 00:03:57,000

But before all that, they're starting at the beginning by making this stuff.

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00:03:58,000 --> 00:04:06,000

The traditional recipe, if there is such a thing, of Pycrete is that it should be 14% by weight of sawdust

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00:04:06,000 --> 00:04:11,000

or wood pulp and then 86% of course by weight of water.

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00:04:11,000 --> 00:04:13,000

Sounds simple. And it is.

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00:04:13,000 --> 00:04:17,000

Jamie mixes the wood pulp and water and hay presto.

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00:04:17,000 --> 00:04:20,000

This is Pycrete. Aircraft carriers, huh?

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00:04:22,000 --> 00:04:23,000

Who knew?

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00:04:25,000 --> 00:04:30,000

The Pycrete goes into the deep freeze to chill out so the guys can take aim at this myth.

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00:04:30,000 --> 00:04:33,000

So there are three mythical properties of Pycrete.

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00:04:33,000 --> 00:04:39,000

That it melts slower than ice, that it's harder than ice, and that it's bulletproof.

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00:04:39,000 --> 00:04:43,000

And well, we couldn't resist testing the last one first.

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00:04:43,000 --> 00:04:49,000

So we've set up a mini gun range and we're going to shoot a block of ice and shoot a block of Pycrete and see what the difference is.

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00:04:49,000 --> 00:04:53,000

So for the first test, it's just plain ice.

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

That's pretty darn good.

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00:04:55,000 --> 00:04:58,000

Versus a 45 caliber slug.

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00:04:58,000 --> 00:05:02,000

Shooting an ice in three, two, one.

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

I think I can tell what the results are.

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00:05:07,000 --> 00:05:10,000

It sounded like a bowling alley.

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00:05:10,000 --> 00:05:15,000

Closer inspection confirms the bullet scored a clean strike.

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

We turned it into a snow cone.

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00:05:20,000 --> 00:05:25,000

So can the freshly frozen Pycrete withstand the same fate?

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00:05:25,000 --> 00:05:28,000

In three, two, one.

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00:05:28,000 --> 00:05:33,000

There you go.

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00:05:33,000 --> 00:05:36,000

That's bulletproof.

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

You weren't lying.

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

It's tough stuff.

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00:05:40,000 --> 00:05:42,000

It certainly is.

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00:05:42,000 --> 00:05:49,000

Instead of shattering like the ice, the bullet ricocheted off the Pycrete, taking only a shallow crater with it.

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00:05:49,000 --> 00:05:52,000

We don't only bust myths, sometimes we confirm stuff.

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00:05:52,000 --> 00:05:58,000

We were told that Pycrete is bulletproof and it's definitively bulletproof.

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00:05:58,000 --> 00:06:03,000

Well, it may be bulletproof, but the Pycrete isn't out of the woods yet.

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00:06:03,000 --> 00:06:09,000

Next up is the mechanical strength test and it's nothing if not straightforward.

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

I'm going to go out on a limb here and say that you want to put these five-pound weights on one at a time until it breaks.

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00:06:15,000 --> 00:06:17,000

It's like I'm a freaking mind.

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00:06:17,000 --> 00:06:21,000

At first, I need to break the ice.

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00:06:21,000 --> 00:06:23,000

Five-pound pounds.

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00:06:23,000 --> 00:06:24,000

Twenty pounds.

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00:06:24,000 --> 00:06:26,000

Forty pounds.

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00:06:26,000 --> 00:06:27,000

Oh!

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00:06:27,000 --> 00:06:29,000

Forty-one pounds.

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

Forty pounds, one ounce.

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00:06:31,000 --> 00:06:35,000

That was the straw that broke the camel's back.

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00:06:35,000 --> 00:06:37,000

At 40 pounds, the ice shattered.

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00:06:37,000 --> 00:06:39,000

So how will the Pycrete compare?

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00:06:39,000 --> 00:06:42,000

Pycrete, five-pound weight.

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00:06:42,000 --> 00:06:43,000

Go.

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00:06:43,000 --> 00:06:47,000

Well, cue fast-forward because it's tougher than it looks.

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00:06:47,000 --> 00:06:51,000

And when the tally reaches 300 pounds, they run out of lead.

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00:06:51,000 --> 00:06:55,000

So Jamie adopts a more direct approach.

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00:06:55,000 --> 00:07:00,000

This is killing me!

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

Oh!

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00:07:01,000 --> 00:07:03,000

Well, there you go.

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

I love this stuff.

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

And Adam has every reason to.

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

The Pycrete is nearly eight times the breaking strength of the ice.

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00:07:13,000 --> 00:07:14,000

Hell's bells, Margaret.

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

I am impressed with Pycrete.

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00:07:16,000 --> 00:07:20,000

I would not have bet that it could withstand all the lead we had in the shop.

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00:07:20,000 --> 00:07:26,000

I'm starting to think that, you know, the Pycrete is a little bit more than a little bit of a big deal.

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00:07:26,000 --> 00:07:30,000

I would not have bet that it could withstand all the lead we had in the shop.

126

00:07:30,000 --> 00:07:34,000

I'm starting to think that we could have some fun with this technology.

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00:07:38,000 --> 00:07:40,000

Next, Carrie Grant and Tori.

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00:07:40,000 --> 00:07:42,000

Clow on.

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

The last time we did the Alaska Special, we got a lot of fans from Alaska writing in saying we missed a classic myth.

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00:07:50,000 --> 00:07:51,000

Tell me more.

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00:07:51,000 --> 00:07:54,000

The myth is that a couple are driving down a road on a dark snowy night.

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00:07:54,000 --> 00:07:55,000

The visibility is horrible.

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00:07:55,000 --> 00:08:00,000

They swerve out of control, crash head-on into a park snow plow on the side of the road.

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

But this is no ordinary crash.

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00:08:02,000 --> 00:08:10,000

Instead of just crumpling into a wreck, the car splits all the way down the middle, from the front to the rear, in a perfect bifurcation.

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

And both walk away from the crash.

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00:08:12,000 --> 00:08:13,000

Are you serious?

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

Yep.

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00:08:14,000 --> 00:08:15,000

Wow.

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00:08:17,000 --> 00:08:20,000

It's a crazy crash concept that's snow joke.

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00:08:20,000 --> 00:08:24,000

A car plows into a plow and is split right down the middle.

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00:08:24,000 --> 00:08:28,000

But could a snow plow really bifurcate a car?

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00:08:28,000 --> 00:08:32,000

It's a myth that's full of problems, starting with this one.

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00:08:32,000 --> 00:08:38,000

For this myth, we need to do some pinpoint accurate crash tests using cars smashing into snow plows.

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00:08:38,000 --> 00:08:42,000

But there are no crash test facilities that we can use in Alaska.

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00:08:42,000 --> 00:08:44,000

Alright, so how are we going to test this one?

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00:08:44,000 --> 00:08:48,000

Well, our researchers have come up with an amazing location.

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00:08:48,000 --> 00:08:52,000

It's beautiful, it's snowy, it's in Wisconsin.

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00:08:52,000 --> 00:08:59,000

Well, ultimately this is a great Alaskan myth, but if we have to go to Wisconsin and test it, then so be it.

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

Alright, well that's the case.

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

I think the first thing we need to do when we get there is look at some snow plows.

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00:09:04,000 --> 00:09:07,000

I mean, let's face it, from California, what do we know about snow plows?

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00:09:08,000 --> 00:09:13,000

In an odd start for the Alaska special, the team head to Wisconsin instead.

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00:09:14,000 --> 00:09:18,000

Oh, there it is. Snow plow nirvana.

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00:09:18,000 --> 00:09:24,000

Now it isn't Alaska, but with plows aplenty, Burke's Trucks is the perfect place to start.

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00:09:24,000 --> 00:09:29,000

We may not have Pratt fishermen walking around here, can't see rush from our back porch,

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00:09:29,000 --> 00:09:31,000

and there's no moose freely walking the streets.

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

But what we do have here is a lot of snow and snow plows, and that's our first step.

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00:09:37,000 --> 00:09:38,000

We got to get us one of those.

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00:09:39,000 --> 00:09:43,000

And that's a process bringing back bad memories for Grant.

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00:09:43,000 --> 00:09:46,000

So last time we used a snow plow, it was a cursed item.

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

There was a curse of the snow plow.

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00:09:48,000 --> 00:09:52,000

This time I fell down immediately after getting out of the car.

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00:09:52,000 --> 00:09:53,000

Ow.

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00:09:53,000 --> 00:09:54,000

This does not bode well.

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00:09:56,000 --> 00:10:00,000

Snow plow of death was a myth cursed from beginning to end.

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

But that's not what's bothering Tori.

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

I'm not so concerned about the curse as I am about these plows.

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

For this to be even remotely possible to get one of these cars to split, we're going to need a wedge shaped plow.

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00:10:14,000 --> 00:10:20,000

Tori's got a point. These flat scoops are miles off the myth, but after hunting high and low...

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00:10:20,000 --> 00:10:24,000

It turned on. Turn it off, turn it off.

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00:10:24,000 --> 00:10:25,000

Nothing.

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00:10:25,000 --> 00:10:27,000

The team strikes gold.

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00:10:27,000 --> 00:10:33,000

Now that is the plow we're looking for.

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00:10:33,000 --> 00:10:37,000

Dude, if anything is going to split that car, it's got to be this.

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00:10:37,000 --> 00:10:43,000

Not only does it have this sharp axe edge, but it's got this really thin blade right in front,

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00:10:43,000 --> 00:10:47,000

which is just like presenting a knife edge to a car.

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00:10:47,000 --> 00:10:51,000

And that's exactly what we need to split our car right down the middle.

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00:10:51,000 --> 00:10:54,000

And there's more behind this plow than just the blade.

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00:10:55,000 --> 00:10:58,000

The great thing about this is not only do we have this magnificent blade,

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

but we have this huge weight of a truck behind it,

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

which means the car is going to be hitting a completely immovable force.

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

Basically hitting a giant immobile axe.

184

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

Later, hit a snow plow smash, split a car completely in two.

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00:11:18,000 --> 00:11:21,000

But first, Adam and Jamie hit the drink.

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00:11:21,000 --> 00:11:24,000

Oh, look at me. I'm in a boat made of advice.

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00:11:32,000 --> 00:11:38,000

During World War II, the engineer Jeffrey Pike imagined a flotilla of iceberg-like ships

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

made only from piecrete.

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

But would a boat made from wood, pulp and ice have stayed afloat?

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00:11:44,000 --> 00:11:47,000

Or was this idea just dead wood?

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00:11:48,000 --> 00:11:54,000

Well, the mythbusters are finding out, putting piecrete through a frile by fire.

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00:11:54,000 --> 00:11:57,000

And sure as heck, it is bulletproof.

193

00:11:57,000 --> 00:12:03,000

And so far, it's living up to the claims, but Jamie sees some room for improvement.

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

The reason piecrete is strong is because of the overlapping fibers of these wood chips.

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00:12:09,000 --> 00:12:15,000

Now, the reason that it actually breaks under shock is that the fibers are not terribly long,

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

and so they break apart relatively quickly.

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00:12:18,000 --> 00:12:24,000

So what other kind of cellulose products do we have that maybe would be superior?

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00:12:25,000 --> 00:12:29,000

And there's your answer. Newspaper. Lots of newspaper.

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00:12:29,000 --> 00:12:34,000

In phonebook friction, the mythbusters found out just how much force

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

two interleaved phonebooks could withstand.

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

This is like a sickness.

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00:12:38,000 --> 00:12:42,000

And it's that layered strength that Jamie is hoping to capitalize on

203

00:12:42,000 --> 00:12:45,000

with his own new brand of piecrete.

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00:12:45,000 --> 00:12:49,000

What if we saturate something like that with water and freeze it?

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00:12:49,000 --> 00:12:55,000

We might have something, say like plywood instead of particle board, and plywood is stronger.

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00:12:55,000 --> 00:13:00,000

The newspaper is more or less the same old wood pulp, just different form.

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

So how will it compare?

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00:13:02,000 --> 00:13:05,000

Okay, the last few pounds.

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00:13:05,000 --> 00:13:10,000

Just like the classic piecrete, the super piecrete supports 300 pounds of lead.

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00:13:10,000 --> 00:13:15,000

But even after a beating, it doesn't crack under pressure.

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00:13:18,000 --> 00:13:22,000

Dude, I'm going to go out on a limb and say I like this material.

212

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

Okay.

213

00:13:23,000 --> 00:13:26,000

I mean, I'm literally out on a limb.

214

00:13:26,000 --> 00:13:28,000

Yeah, I got it.

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00:13:28,000 --> 00:13:33,000

But before they set sail, there's arguably the most vital question.

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00:13:33,000 --> 00:13:34,000

Will it melt?

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00:13:34,000 --> 00:13:37,000

And for that, Jamie whips up these.

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

Perfect.

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00:13:38,000 --> 00:13:47,000

Like an ice cube tray on steroids, these molds will ensure that the boys end up with three identical small scale boats for testing.

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00:13:47,000 --> 00:13:49,000

We got our newspaper one.

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00:13:49,000 --> 00:13:54,000

We have our piecrete mix and we have plain water that will turn to plain ice.

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00:13:54,000 --> 00:13:59,000

We're going to pull them out when they're frozen and launch them and see which one melts first.

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00:13:59,000 --> 00:14:04,000

And they've come to bamboo reef to do just that.

224

00:14:04,000 --> 00:14:06,000

Adam, what's our plan of action today?

225

00:14:06,000 --> 00:14:07,000

Oh Jamie, it's going to be totally great.

226

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

We're going to take all three ice boats out of the molds and put them in the water and see which one melts first.

227

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

And we're going to use two little characters of us to represent us just to increase the danger.

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

Do we really have to use these stupid representations of ourselves?

229

00:14:19,000 --> 00:14:20,000

I hate that.

230

00:14:20,000 --> 00:14:22,000

Yeah man, it's going to be funny.

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00:14:22,000 --> 00:14:24,000

Okay.

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00:14:25,000 --> 00:14:31,000

It's a head to head melt test to find out which boat will be the last one floating.

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00:14:31,000 --> 00:14:35,000

And with the stunt dolls standing by, first up is the ice.

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00:14:35,000 --> 00:14:38,000

Why don't you try turning it over and I'll try and hold it on my hands?

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00:14:40,000 --> 00:14:45,000

Now it may have cracked, but all they're looking for is how long it takes to melt.

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00:14:45,000 --> 00:14:47,000

Abandon ship.

237

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

It's gone from three quarters of an inch thick to a quarter inch thick in about a minute.

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00:14:53,000 --> 00:15:00,000

With the ice disappearing fast, it's over to the piecrete and super piecrete boats to test the waters.

239

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

I'm going to put a passenger in here.

240

00:15:02,000 --> 00:15:03,000

Here we go.

241

00:15:05,000 --> 00:15:08,000

Oh look at me. I have a boat made of the ice.

242

00:15:08,000 --> 00:15:11,000

Well right off the bat we can see it's better than ice.

243

00:15:11,000 --> 00:15:18,000

Oh look at me. My boat's perfect. My boat's lasting a long time. I love wet newspaper.

244

00:15:18,000 --> 00:15:23,000

Notice that even in scam, little Jimmy kind of looks smug.

245

00:15:23,000 --> 00:15:31,000

There's plenty to be smug about. Five minutes in and the super piecrete is still going strong in the warm water.

246

00:15:31,000 --> 00:15:33,000

But Adam's ship is sinking.

247

00:15:33,000 --> 00:15:36,000

I'd say that's a total failure of the boat right there.

248

00:15:36,000 --> 00:15:40,000

The piecrete held up five times longer than the ice.

249

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

There you go.

250

00:15:42,000 --> 00:15:45,000

But it's no match for the super piecrete.

251

00:15:45,000 --> 00:15:50,000

Very good. I'd say given that this is no longer a structure.

252

00:15:50,000 --> 00:15:52,000

I call it.

253

00:15:52,000 --> 00:15:53,000

We can call it.

254

00:15:53,000 --> 00:15:57,000

The super piecrete lasted 12 times longer than the classic piecrete.

255

00:15:57,000 --> 00:16:02,000

And let's face it, every second will count in those icy Alaskan waters.

256

00:16:02,000 --> 00:16:06,000

It looked like the newspaper piecrete was just as strong as the regular piecrete,

257

00:16:06,000 --> 00:16:12,000

but when we put it in the water it becomes far superior as a building material for our purposes.

258

00:16:12,000 --> 00:16:15,000

You might see a pile of wet newspaper here.

259

00:16:15,000 --> 00:16:17,000

Timmy and I, we see a boat.

260

00:16:17,000 --> 00:16:25,000

Adjective to mythbusters. Can't get enough and you need help?

261

00:16:25,000 --> 00:16:30,000

Go to [discovery.com slash mythbusters](http://discovery.com/slash/mythbusters) and feed that addiction.

262

00:16:33,000 --> 00:16:44,000

It's Plow Wars as the team takes on a snow plow collision for the Alaska Special.

263

00:16:44,000 --> 00:16:47,000

So what are they doing in Wisconsin?

264

00:16:47,000 --> 00:16:51,000

Carrie knows, so where Alaska?

265

00:16:51,000 --> 00:16:55,000

This is what we couldn't find in Alaska and why we ended up in Wisconsin.

266

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

This is MGA Research Corporation, one of the world's leading testing companies

267

00:17:00,000 --> 00:17:03,000

for the consumer, aerospace, military and automotive industries.

268

00:17:03,000 --> 00:17:09,000

And I hear that they excel in working in these snowy conditions, which is perfect for us.

269

00:17:11,000 --> 00:17:16,000

It's the ideal location for our two mythical foes to duke it out.

270

00:17:21,000 --> 00:17:24,000

No, no, not you two. The snow plow versus the car.

271

00:17:26,000 --> 00:17:29,000

But what is it that makes MGA so perfect?

272

00:17:29,000 --> 00:17:34,000

We need the dead center of the car to hit the pinnacle point of the blade of the snow plow.

273

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

And for that we need something far more reliable, which starts 900 feet that way.

274

00:17:40,000 --> 00:17:47,000

With this, a continuous loop of steel cable that propels the car along the guide rail,

275

00:17:47,000 --> 00:17:55,000

all powered by a 600 horsepower electric motor that will ensure pinpoint accuracy and repeatability.

276

00:17:55,000 --> 00:18:01,000

So let's get that straight. Instead of a towing system, MGA use a motor to pull a cable,

277

00:18:01,000 --> 00:18:07,000

which will let our car plow into our stationary plow with incredible accuracy.

278

00:18:07,000 --> 00:18:10,000

And speaking of cars...

279

00:18:10,000 --> 00:18:14,000

So the observant viewers are probably asking themselves, why are there two cars?

280

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

The engine is the most resistant part of the car, so we need to test two different types of car.

281

00:18:19,000 --> 00:18:22,000

A front engine car and a rear engine car.

282

00:18:22,000 --> 00:18:31,000

Now this is a front engine car. The only problem is, the other car we have is also a front engine car.

283

00:18:31,000 --> 00:18:36,000

So what we need to do is pull this engine out, stick it on the back so we have our rear engine car.

284

00:18:37,000 --> 00:18:42,000

While Tori puts the junk in the trunk, the other car also needs some attention.

285

00:18:42,000 --> 00:18:47,000

I got Alaska up this car a little bit. It's looking a little Wisconsin right now.

286

00:18:47,000 --> 00:18:51,000

But halfway through pimping her ride, Carrie's worried.

287

00:18:51,000 --> 00:18:56,000

But I think this is going to be a much more daunting task than the snow plow actually thinks it's going to be.

288

00:18:56,000 --> 00:19:01,000

It's got to get completely through this dashboard, all the way through the center of the car to the back.

289

00:19:01,000 --> 00:19:04,000

I'm having a hard time seeing this actually happen.

290

00:19:04,000 --> 00:19:11,000

It's clear that there's a lot of car to clean. So will the snow plow be up to the task?

291

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

Look, the car is all decorated for big Alastin style crash.

292

00:19:14,000 --> 00:19:17,000

Well, the rear engine vehicle is ready to go.

293

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

Well, let's come back tomorrow and split this myth in two.

294

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

Yeah.

295

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

Coming up next on MythBusters, can we split a front engine car with a snow plow?

296

00:19:36,000 --> 00:19:41,000

Carrie, Tori and Grant are about to crash and burn in the snow.

297

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

I want to ride that one.

298

00:19:42,000 --> 00:19:47,000

They're testing the myth of a snow plow smash that split a car completely in two.

299

00:19:47,000 --> 00:19:50,000

What they're doing right now is they're chaining the car to the skate.

300

00:19:50,000 --> 00:19:55,000

Now, the skate is a device that hooks onto the track and ensures that the car goes straight the whole distance.

301

00:19:55,000 --> 00:19:59,000

Now, at the very end, there is a high-tech quick release. There's no blue rope here.

302

00:19:59,000 --> 00:20:03,000

Now, this will ensure that we hit our snow plow dead soon.

303

00:20:04,000 --> 00:20:09,000

And with a few final tweaks, we're good to go, except for one last thing.

304

00:20:09,000 --> 00:20:10,000

Passengers.

305

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

So Buster, having a little bit of a problem with airport security, called ahead to get us some local talents.

306

00:20:17,000 --> 00:20:24,000

You're thinking how are inflatable people going to provide any sort of data?

307

00:20:25,000 --> 00:20:30,000

Now, these guys are clearly not crash test dummies or human analogs of any sort.

308

00:20:30,000 --> 00:20:36,000

But the myth says that both the passenger and the driver made it out of the crash completely unharmed.

309

00:20:36,000 --> 00:20:42,000

Now, if either of one of these gets the slightest nick, they'll totally deflate.

310

00:20:43,000 --> 00:20:49,000

And with the dummies sitting pretty, here's how the test is going to go down.

311

00:20:49,000 --> 00:20:58,000

This cable will pull that front engine car up to 55 miles an hour and 10 feet before the plow will release the car and it will go smashing into the blade.

312

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

And if that all works out, what we're looking for are two things.

313

00:21:02,000 --> 00:21:07,000

Number one, does the car split on the snow plow blade cleanly all the way down?

314

00:21:07,000 --> 00:21:11,000

And number two, are inflatable people still inflated?

315

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

Well, there's only one way to find out.

316

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

Because it's go time.

317

00:21:18,000 --> 00:21:25,000

Alright, this is front engine car at 55 miles an hour versus the mother of all snow plows.

318

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

In three, two, one, go!

319

00:21:29,000 --> 00:21:34,000

It's the moment of truth as the car hurtles down the track at 55 miles per hour.

320

00:21:35,000 --> 00:21:37,000

Looking good. It's looking great.

321

00:21:37,000 --> 00:21:42,000

But will the combination of speed and snow plow be enough to split the car?

322

00:21:46,000 --> 00:21:47,000

Wow!

323

00:21:47,000 --> 00:21:48,000

That is not bar-focated.

324

00:21:48,000 --> 00:21:51,000

Nope, it did split in half, but that was awesome.

325

00:21:51,000 --> 00:21:52,000

That was great.

326

00:21:52,000 --> 00:21:58,000

Yep, that test couldn't have gone better, but that's hardly the result the team was looking for.

327

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

That's not splitting too.

328

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

No, that's not even cut. I mean, it's just like a dent in the front end.

329

00:22:04,000 --> 00:22:07,000

Yeah, it hit the engine block and stopped.

330

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

So as cool as this crash was, we're watching it real time, so it only lasts a split second.

331

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

But luckily, for the viewers, we have high-speed cameras.

332

00:22:17,000 --> 00:22:21,000

And not just one, but four for their viewing pleasure.

333

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

Viewing pleasure is right.

334

00:22:25,000 --> 00:22:29,000

Every angle of that spectacular crash tells the same story.

335

00:22:29,000 --> 00:22:33,000

Although the car hit the plow head-on, there's no bifurcation.

336

00:22:35,000 --> 00:22:38,000

But the MythBusters aren't ready to call this one just yet.

337

00:22:38,000 --> 00:22:41,000

After all, it wasn't a complete failure.

338

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

The bumper, totally severed in half.

339

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

But that is only the first four inches of the car.

340

00:22:47,000 --> 00:22:52,000

The other 98% of the car, still pretty much intact.

341

00:22:52,000 --> 00:22:55,000

98% still intact.

342

00:22:55,000 --> 00:22:58,000

But the passengers, not so much.

343

00:22:58,000 --> 00:23:00,000

I'm a trade ZPR, don't worry.

344

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

I'm pretty sure these people are not going to be walking away from this accident.

345

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

We lost that.

346

00:23:07,000 --> 00:23:08,000

Sorry, Tori.

347

00:23:08,000 --> 00:23:12,000

But to find out if the plow can split more than just a bumper,

348

00:23:12,000 --> 00:23:15,000

it's over to Plan B to bring up the rear.

349

00:23:15,000 --> 00:23:17,000

Now we want to give it a better chance of working.

350

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

So we've got a MythBuster-y rear-engine car that we can try to split on the snow plow.

351

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

Maybe this will give us some sort of bifurcation.

352

00:23:25,000 --> 00:23:29,000

Yep, because a snow plow smash just isn't enough.

353

00:23:29,000 --> 00:23:34,000

To confirm this myth, we need to see a car split in two.

354

00:23:34,000 --> 00:23:37,000

After the break, it's all hands on deck.

355

00:23:37,000 --> 00:23:41,000

Okay, welcome to building a boat out of Paper 101.

356

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

As the Paper Boat Build begins.

357

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

Don't try anything you see on the show at home.

358

00:23:51,000 --> 00:23:53,000

Wear what you call experts.

359

00:23:54,000 --> 00:24:03,000

You can make some pretty useful stuff out of ice and wood.

360

00:24:03,000 --> 00:24:07,000

But could you really make a boat out of both combined?

361

00:24:07,000 --> 00:24:13,000

Well, to find out, Adam and Jamie have put Pycrete through its mythical paces.

362

00:24:13,000 --> 00:24:16,000

Oh, look at me! I'm in a boat made of ice!

363

00:24:16,000 --> 00:24:19,000

And so far, it's looking good.

364

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

So it looks like Pycrete's living up to its hype, huh?

365

00:24:22,000 --> 00:24:26,000

Absolutely it is. The stuff is really impressive.

366

00:24:26,000 --> 00:24:30,000

Impressive until you improved on it with the idea of newspaper.

367

00:24:30,000 --> 00:24:33,000

Yeah, well, what's next though?

368

00:24:33,000 --> 00:24:40,000

Obviously, we have to finish this episode putting around the Alaskan Fjords in a boat made out of newspaper and ice.

369

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

It's not like we're going to be able to build a full-sized aircraft carrier. We don't have the time.

370

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

No.

371

00:24:46,000 --> 00:24:54,000

What if we made a boat that looked like and performs like a real honest goodness speedboat with a big motor on it?

372

00:24:54,000 --> 00:24:56,000

That is ambitious.

373

00:24:56,000 --> 00:24:58,000

It'll be fun though.

374

00:24:58,000 --> 00:25:00,000

I love it. Let's go.

375

00:25:01,000 --> 00:25:10,000

It's destination Alaska to attempt to build and set sail in the world's first frozen speedboat.

376

00:25:10,000 --> 00:25:14,000

This is Ketchikan, Alaska. Population? Just about 8,000.

377

00:25:14,000 --> 00:25:17,000

Often the first stop for cruise ships heading up the west coast of North America.

378

00:25:17,000 --> 00:25:26,000

It's Alaskan locale and proximity to water make it the ideal place for the maiden voyage of the midbusters ice boat.

379

00:25:26,000 --> 00:25:29,000

And this is the Ketchikan High School Wood Shop.

380

00:25:29,000 --> 00:25:33,000

It's a shop actually pretty similar to this where I first cut my teeth in the making of things.

381

00:25:33,000 --> 00:25:38,000

This is where 2,000 pounds of newspaper aided by low temperatures will hopefully become a boat.

382

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

Now if you'll excuse me, I've got some work to do.

383

00:25:40,000 --> 00:25:45,000

Indeed. Because in just a few days the boys will be putting their lives on the line.

384

00:25:45,000 --> 00:25:48,000

There's paper everywhere.

385

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

In a boat made out of these.

386

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

What weighs over a ton and might end up being a boat. That's right.

387

00:25:56,000 --> 00:26:05,000

Newspaper. And we've got about 15,000 local Alaskan newspapers that we've got to unfold and soak in order to build our boat.

388

00:26:05,000 --> 00:26:07,000

It's too big a job for Jamie and me.

389

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

Okay, welcome to building a boat out of paper 101.

390

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

But luckily Ketchikan High School has some willing midbusters fans who also happen to be students who also happen to have some free time.

391

00:26:19,000 --> 00:26:28,000

So for this to work properly we need to make sure that water gets in between all of the pages and all of the fibers and makes it all one piece.

392

00:26:28,000 --> 00:26:35,000

Air bubbles and things like that are good. It could cause it to delaminate and we've only got one shot at it.

393

00:26:35,000 --> 00:26:43,000

With 150,000 pages soaking, the next step is the mold. And Jamie's got just the design in mind.

394

00:26:43,000 --> 00:26:47,000

I used to work as a boat captain so I've been around a lot of boats.

395

00:26:47,000 --> 00:26:52,000

There was one type of boat that caught my attention some years ago though. It was called the Carolina Skiff.

396

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

And that's because it has a flat bottom.

397

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

Now the flat bottom allows it to get up on a plane really quickly which is good for our purposes.

398

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

But also it makes our mold making really simple because the mold basically just has to be a box with flat sides and bottoms and so on.

399

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

So we're going to have a boat in no time at all.

400

00:27:11,000 --> 00:27:17,000

Jamie and I ran through at least 20 different ways to build this boat from the inside out, from the outside in.

401

00:27:17,000 --> 00:27:26,000

Pouring it, spraying it, laying it, freezing it until we came upon what we think is the solution with the highest chance of success.

402

00:27:26,000 --> 00:27:31,000

It's going to be a painstaking process that starts in the center.

403

00:27:31,000 --> 00:27:33,000

That's the first one.

404

00:27:33,000 --> 00:27:37,000

And works out to protect the integrity of the boat.

405

00:27:37,000 --> 00:27:42,000

We're going to be layering in the newspapers layer over layer like the shingles of a roof.

406

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

So that all the open sides of the newspaper point away from the direction of travel.

407

00:27:46,000 --> 00:27:53,000

Thus as it starts to melt, the water's still not going to be able to peel off big chunks of newspaper as it's going.

408

00:27:53,000 --> 00:27:55,000

And hopefully that will make it last longer.

409

00:27:55,000 --> 00:27:58,000

Well, that's the plan, but it's going to take time.

410

00:27:58,000 --> 00:28:01,000

Your back's getting to you already, huh?

411

00:28:01,000 --> 00:28:06,000

As every layer is built from the center out, front to back, one at a time.

412

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

Paper boat making is dirty work.

413

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

Dirty work, but the build is going just as they planned.

414

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

I feel like I'm working in a swamp.

415

00:28:16,000 --> 00:28:21,000

And right on cue, the all-important freezer truck arrives.

416

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

Ah, that's perfect. It's nice and cold already.

417

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

That's it. Let's lay in some plastic.

418

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

Okay.

419

00:28:29,000 --> 00:28:32,000

With the plastic covering in place, the boat is watertight.

420

00:28:32,000 --> 00:28:35,000

So the boys construct the internal mold.

421

00:28:35,000 --> 00:28:38,000

Working lovely.

422

00:28:38,000 --> 00:28:41,000

Well, the outer mold is in place, the inner mold is in place,

423

00:28:41,000 --> 00:28:43,000

and the newspaper and the water are in place.

424

00:28:43,000 --> 00:28:47,000

It's time to get this thing into the freezer truck and let physics take over.

425

00:28:47,000 --> 00:28:51,000

Which, when you're dealing with something 20 feet long, 8 feet wide,

426

00:28:51,000 --> 00:28:56,000

and weighing 3,000 pounds, is easier said than done.

427

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

Yeah, that's why I got the little forklift down here.

428

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

And despite weather that would freeze the balls off a pool table,

429

00:29:04,000 --> 00:29:08,000

they get the boat onto the ice truck and the freezing can begin.

430

00:29:08,000 --> 00:29:11,000

Extra, extra. Read all about it.

431

00:29:11,000 --> 00:29:13,000

Coming right up.

432

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

Hey, which way to Alaska?

433

00:29:15,000 --> 00:29:20,000

Carrie, Grant and Tori bring up the rear for a smashing snow plow split.

434

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

Deep in the heart of Wisconsin,

435

00:29:36,000 --> 00:29:41,000

Grant, Tori and Carrie have been making music.

436

00:29:41,000 --> 00:29:45,000

Welcome to the Mythbusters Alaska Special in Wisconsin.

437

00:29:45,000 --> 00:29:48,000

We're testing the myth that a car skids off the road,

438

00:29:48,000 --> 00:29:49,000

goes head onto a snow plow,

439

00:29:49,000 --> 00:29:51,000

bifurcates perfectly,

440

00:29:51,000 --> 00:29:56,000

and the driver and the passenger walk away completely unharmed.

441

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

But in test one, which was a front engine car at 55 miles an hour,

442

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

the only thing to bifurcate was the front bumper.

443

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

And the passenger and driver, they were pretty far from being unscathed.

444

00:30:07,000 --> 00:30:09,000

But we can't bust this myth yet.

445

00:30:09,000 --> 00:30:11,000

Our first vehicle was a front engine car.

446

00:30:11,000 --> 00:30:15,000

For test two, we have our modified rear engine car,

447

00:30:15,000 --> 00:30:18,000

which means there's hardly anything in the way for that plow to cut through.

448

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

This vehicle is going to give us the best chance of confirming this myth.

449

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

And to give this myth even more of a fighting chance,

450

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

we've made a few additional changes.

451

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

And the first of those changes is to the pointy end of the plow.

452

00:30:35,000 --> 00:30:38,000

So if you review the high speed footage from test one,

453

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

you'll see that the snow plow did indeed sustain a little bit of damage.

454

00:30:42,000 --> 00:30:45,000

And in fact, it left a little cove in the snow plow blade.

455

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

Well, our friends at MGA Research have repaired it,

456

00:30:48,000 --> 00:30:51,000

and dare I say, made it better than new.

457

00:30:51,000 --> 00:30:53,000

There's one more thing that I've got to do,

458

00:30:53,000 --> 00:30:55,000

and that is to sharpen the blade.

459

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

A super sharp blade may seem unrealistic,

460

00:30:59,000 --> 00:31:01,000

but it could happen.

461

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

And to show you exactly how sharp this is,

462

00:31:05,000 --> 00:31:07,000

let me give you a demonstration.

463

00:31:09,000 --> 00:31:11,000

At least we got one split.

464

00:31:12,000 --> 00:31:15,000

But that's not the only edge this myth is getting.

465

00:31:15,000 --> 00:31:18,000

Test two is also about speed.

466

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

Okay, to ramp up test two, we have an even sharper snow plow blade,

467

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

and we have a rear engine vehicle.

468

00:31:24,000 --> 00:31:26,000

But I hear you're the man to talk to you about speed.

469

00:31:26,000 --> 00:31:28,000

How fast can we go?

470

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

Well, I would love to do the 92 miles an hour that our system is capable of,

471

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

but because of track conditions, vehicle balance, I can do 70.

472

00:31:37,000 --> 00:31:39,000

I like 70. Let's do 70.

473

00:31:40,000 --> 00:31:42,000

Fifty extra miles per hour.

474

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

That's 25% faster than the first test.

475

00:31:45,000 --> 00:31:48,000

But hold on, who's driving?

476

00:31:48,000 --> 00:31:51,000

So test one, Judy didn't make it.

477

00:31:51,000 --> 00:31:53,000

John did.

478

00:31:53,000 --> 00:31:55,000

I tried as hard as I could to revive her,

479

00:31:55,000 --> 00:31:57,000

but nothing I could do to bring her back.

480

00:32:00,000 --> 00:32:02,000

These are Judy's clothes.

481

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

It still smells like her.

482

00:32:07,000 --> 00:32:10,000

But luckily, Judy has a twin sister, Trudy.

483

00:32:10,000 --> 00:32:13,000

So all I need to do is fill her up with air,

484

00:32:14,000 --> 00:32:18,000

stick her in the car, and see if these guys survived this test.

485

00:32:19,000 --> 00:32:22,000

With Trudy in the hot seat and the car on the track,

486

00:32:22,000 --> 00:32:26,000

there's only one thing left to do, and that's get some predictions.

487

00:32:28,000 --> 00:32:30,000

I don't think we're going to split it all the way down the middle,

488

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

but I think we're going to get a lot further through the vehicle.

489

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

But I definitely don't think those people are going to walk away from this accident.

490

00:32:36,000 --> 00:32:41,000

In terms of the myth, if we can't get this car to split with a rear engine vehicle

491

00:32:41,000 --> 00:32:47,000

and a super-sharpened snow plow, this is completely, totally busted.

492

00:32:47,000 --> 00:32:52,000

I mean, there's just nothing that's going to make a car split into two if this doesn't do it.

493

00:32:52,000 --> 00:32:56,000

This is test two, rear engine vehicle at 70 miles an hour

494

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

versus the mother-in-law of all snow plows.

495

00:32:59,000 --> 00:33:03,000

In three, two, one, go!

496

00:33:04,000 --> 00:33:07,000

It's now or never for the snow plow split,

497

00:33:07,000 --> 00:33:11,000

as the rear engine car hurtles down the track at 70 miles per hour

498

00:33:11,000 --> 00:33:15,000

and headlong into its date with snow plow destiny.

499

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

You see that thing? It's like a banana peel!

500

00:33:21,000 --> 00:33:24,000

But I don't think the passenger driver are walking away.

501

00:33:26,000 --> 00:33:30,000

And at snow plow ground zero, the wreckage confirms their suspicions.

502

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

I've never seen anything like this.

503

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

No!

504

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

I'm going to tell you.

505

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

It is split for sure.

506

00:33:36,000 --> 00:33:38,000

It's split all the way to the back seat.

507

00:33:38,000 --> 00:33:41,000

Pretty sure that though, that the guys did not survive.

508

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

I can't wait to see the high speed.

509

00:33:43,000 --> 00:33:45,000

That's going to be awesome.

510

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

Well, it certainly is impressive.

511

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

At impact, the car is cleaved almost in two.

512

00:33:52,000 --> 00:33:57,000

But once again, that pesky engine block proves too tough for the plow.

513

00:33:57,000 --> 00:33:59,000

That was sick. As soon as that car came out of the garage,

514

00:33:59,000 --> 00:34:01,000

you hear the whizzing of the cable on the carcass.

515

00:34:01,000 --> 00:34:03,000

It's faster than that plow.

516

00:34:03,000 --> 00:34:04,000

It was like, busy!

517

00:34:04,000 --> 00:34:06,000

It went two directions.

518

00:34:06,000 --> 00:34:08,000

Wheels flew over on that side, glass came over here.

519

00:34:08,000 --> 00:34:12,000

But we still were not able to split it all the way through.

520

00:34:12,000 --> 00:34:14,000

It was still awesome.

521

00:34:14,000 --> 00:34:17,000

So I've seen a lot of crashes, but that,

522

00:34:17,000 --> 00:34:21,000

that is one of the most amazing things I have ever seen.

523

00:34:21,000 --> 00:34:24,000

See a car almost split in two?

524

00:34:24,000 --> 00:34:26,000

That's once in a lifetime.

525

00:34:26,000 --> 00:34:29,000

It certainly is a once in a lifetime crash.

526

00:34:29,000 --> 00:34:32,000

But where does that leave our snow plow myth?

527

00:34:32,000 --> 00:34:37,000

We tested this myth using a front engine vehicle going 55 miles an hour,

528

00:34:37,000 --> 00:34:38,000

and we busted it.

529

00:34:38,000 --> 00:34:42,000

We tried using a rear engine vehicle going 70 miles an hour,

530

00:34:42,000 --> 00:34:43,000

and we busted it.

531

00:34:43,000 --> 00:34:45,000

And then one final thing we busted,

532

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

the curse of the snow plow.

533

00:34:48,000 --> 00:34:53,000

Oh, oh, oh, oh!

534

00:34:53,000 --> 00:34:55,000

This test couldn't have gone any better.

535

00:34:55,000 --> 00:34:58,000

Yeah, we gave this myth the best possible chance of working,

536

00:34:58,000 --> 00:35:00,000

and the car still didn't split.

537

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

And there is no way those people are walking away from that crash.

538

00:35:03,000 --> 00:35:04,000

So this one's busted.

539

00:35:04,000 --> 00:35:05,000

Busted.

540

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

Busted.

541

00:35:06,000 --> 00:35:08,000

Let's be back to the shop.

542

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

That's a long walk.

543

00:35:12,000 --> 00:35:13,000

Yeah, well.

544

00:35:13,000 --> 00:35:16,000

I'm sure we're going the right way.

545

00:35:18,000 --> 00:35:20,000

After the break

546

00:35:21,360 --> 00:35:28,300

It's the headline deadline for the world's first newspaper boat

547

00:35:38,160 --> 00:35:43,680

The mythbusters are no strangers to setting sail in dangerous dinghies for science

548

00:35:43,680 --> 00:35:49,680

This is so cool and they've also engineered in genius devices

549

00:35:50,480 --> 00:35:52,480

using only paper

550

00:35:54,480 --> 00:35:56,720

But in this Alaskan special

551

00:35:58,200 --> 00:36:00,680

They might just outdo themselves

552

00:36:02,120 --> 00:36:05,800

In case you ever wanted to know how to build a boat out of frozen newspaper

553

00:36:05,800 --> 00:36:08,700

This is how it works first you got to get a bunch of newspaper

554

00:36:08,700 --> 00:36:12,460

Then you build a mold and you put the wet newspaper in the mold

555

00:36:12,460 --> 00:36:18,340

Then you build an inner mold to hold the whole thing together you take the whole affair you put it in a freezer

556

00:36:19,540 --> 00:36:25,220

And when it's frozen you pull it out and then you remove all the mold stuff so excited

557

00:36:25,220 --> 00:36:27,220

You put an outboard motor on it

558

00:36:27,300 --> 00:36:33,440

You take the whole thing down to the water and out you sail away into the icy Alaskan ocean

559

00:36:34,180 --> 00:36:36,500

Well, they've got the first part taken care of

560

00:36:36,740 --> 00:36:40,540

It's a nice boat and it's a nice boat

561

00:36:41,780 --> 00:36:44,420

Get it. I got it an ice

562

00:36:44,980 --> 00:36:46,380

boat

563

00:36:46,380 --> 00:36:52,460

And no boat not even an ingenious ice boat would be complete without a catchy moniker

564

00:36:53,420 --> 00:36:57,620

Look at that. It's even got the name of the boat on it. It's perfect

565

00:36:58,140 --> 00:37:02,700

Which means all yesterday's news needs now is some muscle

566

00:37:03,620 --> 00:37:13,740

Why 150 horsepower well we could have built a boat that floated and frankly it wouldn't have been much of a challenge

567

00:37:13,740 --> 00:37:19,380

But a boat that will take a really powerful motor and get it up on a plane

568

00:37:19,380 --> 00:37:24,940

That's another thing and that's what I want to see here. This sufferer is gonna get up and go

569

00:37:24,940 --> 00:37:27,700

It's gonna go scary fast if it works at all

570

00:37:27,900 --> 00:37:36,540

Well, here's hoping because it's judgment day as the boys get ready to literally put their lives on the line

571

00:37:36,540 --> 00:37:40,900

Well, we are at the water's edge. It's dead calm the conditions couldn't be better

572

00:37:40,900 --> 00:37:44,460

Although I I don't need to tell you that it's pretty cold out here

573

00:37:44,460 --> 00:37:50,300

So the very first thing we are going to do is put on our survival suits just in case we get wet today

574

00:37:50,340 --> 00:37:54,100

With the water two degrees above freezing these orange

575

00:37:54,620 --> 00:37:59,660

Monstrosities will keep the hypothermia at bay should the boys end up in it

576

00:37:59,660 --> 00:38:04,620

My biggest concern right at the gate here is that the boat actually floats

577

00:38:04,620 --> 00:38:10,460

I mean we just sort of invented this thing and we've done our homework, but we're not gonna know if it floats

578

00:38:11,020 --> 00:38:13,020

until it floats

579

00:38:14,820 --> 00:38:20,700

This is it it's no return once we open the doors of this freezer. Are you ready? Let's do it. Okay

580

00:38:24,220 --> 00:38:32,500

It's a tense process as the boys unpack their precious cargo for its first and possibly final voyage

581

00:38:33,180 --> 00:38:35,180

That's beautiful

582

00:38:35,740 --> 00:38:38,380

It's the first time we've seen the outside of the mall. I know

583

00:38:39,500 --> 00:38:43,060

At the water's edge, there's time for a few adjustments

584

00:38:43,820 --> 00:38:51,620

That's it. I don't want to catch your stash. You're good. Okay leaving master savage and commander Heinemann ready to cast off

585

00:38:54,140 --> 00:39:00,580

Remember the myth that launched it all was of a World War two era boat made only of ice and wood pulp

586

00:39:01,980 --> 00:39:09,620

The myth busters pushed the boat out and confirmed those mythical pie cream claims and then added their own news

587

00:39:09,620 --> 00:39:13,140

Twist to give this myth the best shot at success

588

00:39:13,460 --> 00:39:16,140

But now thousands of man hours later

589

00:39:16,940 --> 00:39:22,060

Unbelievably, they're setting sail in a boat that is only frozen newspaper and an engine

590

00:39:24,740 --> 00:39:26,740

Okay, you and I are pushing ready

591

00:39:36,940 --> 00:39:38,940

First impressions are good

592

00:39:39,180 --> 00:39:45,380

You realize what this is the maiden voyage of yesterday's news ice and newspaper. Let's go

593

00:39:47,260 --> 00:39:53,700

Incredibly yesterday's news is staying afloat but for our intrepid voyagers. That's not quite enough

594

00:39:54,460 --> 00:39:57,060

Dude, it's holding up. Let's take it up on the plane

595

00:39:58,220 --> 00:40:03,060

The real test for this boat is will it stay in one piece at speed?

596

00:40:04,300 --> 00:40:06,300

Three miles per hour

597

00:40:08,740 --> 00:40:10,740

Ten miles per hour

598

00:40:13,780 --> 00:40:15,780

18 miles per hour

599

00:40:15,780 --> 00:40:17,780

Wow

600

00:40:25,780 --> 00:40:27,780

Holy crap just about sums it up

601

00:40:28,500 --> 00:40:34,820

Remarkably even at a click of 23 miles per hour the frozen newspaper boat is holding fast

602

00:40:35,100 --> 00:40:38,380

But Adam celebrations may be a little premature

603

00:40:39,500 --> 00:40:41,660

Dude, we've got a leak

604

00:40:46,340 --> 00:40:47,500

Yeah

605

00:40:47,500 --> 00:40:51,700

Although Adam snap freezes the first leak with a blast of co2

606

00:40:52,260 --> 00:40:54,260

We've got to keep the reflute

607

00:40:56,220 --> 00:41:01,100

You can't stem the tide the water's coming in quicker than that pumpkin push it out

608

00:41:01,100 --> 00:41:06,860

I think I think we should head back into shore. Okay. Can I drive? Yeah, go for it

609

00:41:06,860 --> 00:41:10,220

It's my last chance to drive a boat made out of freaking ice

610

00:41:10,660 --> 00:41:19,180

After 30 minutes on the high seas the guys head back to shore and just in time judging by the trail of newspaper

611

00:41:19,940 --> 00:41:23,580

But our able-bodied mythbusters aren't disappointed

612

00:41:24,860 --> 00:41:31,620

We did everything we could as far as testing this material before we got committed to making this whole big boat and

613

00:41:32,220 --> 00:41:37,660

It looked like it was gonna work out fine. And who knew it actually did it worked like a tree

614

00:41:37,740 --> 00:41:41,580

What is a boat a boat floats by that rudimentary definition?

615

00:41:41,940 --> 00:41:48,180

We've succeeded but more than that a boat is made to move efficiently over the water ie get up on

the plane

616

00:41:49,180 --> 00:41:57,660

We put a 500 pound engine on this boat and we got up on a plane. Yep yesterday's news was paper mache in motion

617

00:41:57,660 --> 00:42:00,620

I don't want to get all misty on you, but it's a pleasure building strange crap with you

618

00:42:00,940 --> 00:42:09,020

That's one of the most gratifying parts of this job is you know trying something out nobody's ever done it before and

619

00:42:10,100 --> 00:42:12,100

When it actually works, it's wonderful

620

00:42:12,380 --> 00:42:16,700

We came to Alaska to make a boat out of ice and newspaper and as far as I'm concerned

621

00:42:17,340 --> 00:42:19,340

We knocked it out of the park

622

00:42:19,420 --> 00:42:22,540

They came they saw they conquered

623

00:42:23,220 --> 00:42:29,660

It's funny to think that you know in a few hours. This is just gonna be a pile of mush. I know I love that

624

00:42:30,620 --> 00:42:34,780

And the myth busters abandoned their ship to melt to slush

625

00:42:35,660 --> 00:42:38,420

How are we gonna call this one seems to me pretty straightforward?

626

00:42:39,060 --> 00:42:42,060

Piperi lived up to all three of its mythical properties

627

00:42:42,380 --> 00:42:45,820

Beautifully and we built a viable boat out of ice and newspaper

628

00:42:45,820 --> 00:42:50,220

I mean not only did our boat get up on a plane not only did it go over 25 miles per hour

629

00:42:50,220 --> 00:42:57,740

But it looks so damn good. I swear people are gonna think we faked it even though we didn't I say that makes it plausible

630

00:42:58,060 --> 00:43:04,180

Yeah, but let's not forget that this myth is about the original piecrete and about an aircraft carrier and

631

00:43:04,540 --> 00:43:09,260

Given that our super piecrete darn near melted through in 20 minutes

632

00:43:09,260 --> 00:43:14,460

If you're talking about an aircraft carrier that can go anywhere in the world including tropical waters

633

00:43:14,780 --> 00:43:18,660

It's gonna be sloughing off huge chunks of this stuff as it goes along

634

00:43:19,300 --> 00:43:24,460

That means it's just not at all practical. How about plausible but ludicrous?

635

00:43:25,380 --> 00:43:27,380

I'll buy that good

636

00:43:27,740 --> 00:43:30,700

You