

POUR THE WATER

[00:03:46.29] Remy: Ready. Set. Go!

Allison: Okay, we need the chalk.

[00:04:27.17] Daniel: Put that um-

[00:05:29.12] Daniel: They're all starting to evaporate at like a few seconds. Wait.

[00:05:48.10] Daniel: Allison, what time is it?

[00:05:52.00] Daniel: It's been a minute and a half.

[00:05:55.10] Chase: Who's writing?

[00:06:26.07] Allison: It goes underground and then it comes up.

Daniel: Not underground.

Allison: Whatever.

[00:06:39.01] Allison: You have to make it longer over there because it might spread out. Okay there's the uh, the heat of the, the water vapor.

[00:06:54.20] Student: Okay.

Daniel: Um. B has spread out the most.

WHICH ONE EVAPORATED MOST

[00:07:12.20] Remy: Which one evaporated most? Probably B. B or A?

Allison: What? I think B is.

Chase: This one [C] is probably the thickest. It's still spreading out really over there.

[00:07:24.06] Allison: That's weird cuz that's the 20 second one.

[00:07:35.02] Allison: Okay, it's been three minutes.

[00:08:01.21] Chase: Hold this. That's room temperature.

[00:08:25.26] Remy: What time?

[00:08:27.17] Allison: It's um, four minutes.

[00:08:39.17] Chase: Go around it!

Student: Sorry.

[00:08:48.12] Allison: Four minutes.

Daniel: All have dry spots.

[00:09:07.09] Remy: How much water was it?

Allison: Uh, 6 oz.

[00:09:27.02] Allison: C is still spreading out at um five minutes. But the other two have stopped spreading.

[00:09:44.27] Allison: [to Remy] Other two not spreading.

WE HAVE A PROBLEM

[00:09:50.02] Daniel: I think we found um a problem with the experiment. Is B and kind of it's a flat ground. C and A are both on a dent in the ground.

[00:10:12.10] Allison: Oh, is there water vapor on all of them. Like I only see water vapor on that one.

Remy: That one, B still has some water vapor at 5 minutes?

Allison: Yeah. No, um, 6 minutes.

Chase: No it has a little.

[00:10:31.23] Allison: C has a little.

[00:10:35.24] Chase: I don't see any on B.

[00:11:04.22] Allison: They all are drying up quickly.

Chase: That one's [C] probably gonna go last.

Allison: Six and a half minutes.

HERE'S WHAT I THINK

[00:11:17.20] Chase: Here, here's what I think. First-second-third. [B-room temp, A-15 seconds heated, C-30 seconds heated]. First-second-third.

[00:11:24.16] Chase: This one's [B] less thick.

[00:11:26.03] Daniel: No that's the thickest [A].

Chase: First-what do you think? Allison, what do you think? I think it's going first, second, third.

[00:11:34.15] Allison: I think first [A]--

Daniel: I think first, second, third [C,B,A].

Chase: I think that's going first.

Daniel: It looks like there's a dent there [A].

Chase: (inaudible) they all do.

[00:11:51.28] Daniel: That one's [A] the deepest.

[00:12:05.22] Allison: Seven and a half minutes. Well, no I think that one's going first, so it's B, A, C.

Daniel: I don't-that one definitely is deeper than all of the other ones cuz it's in a dent.

[00:12:24.00] Remy: It's gonna go B, A, C.

Chase: Yeah.

[00:12:49.29] [Chase starts writing his hypothesis on the asphalt]

Allison: We don't have to write our hypothesis.

[00:12:57.19] [Chase's hypothesis is B, A, C]

[00:13:03.29] Remy: At how many seconds?

[00:13:07.15] Allison: Uh, eight and a half minutes.

[00:13:13.19] Remy: At eight and a half minutes, this one has dried.

Allison: Um, B has dried the most. B's almost gone.

[00:13:22.07] Chase: C is still thickest.

[00:13:43.23] Allison: Nine minutes and this one's [B] probably gone in two minutes at the most.

[00:14:13.06] Remy: At nine minutes, B and C are-At nine and one half minutes B is gone.

Chase: Not gone. Well yeah it is.

[00:14:28.22] Daniel: No, see all that, (Chase: wow that one's drying fast) there's water here [at B].

Chase: It's gone.

Daniel: No, there's water.

Chase: No it's (all in a?) crack.

Remy: Nine minutes. B gone except for cracks.

[00:14:50.10] Chase: That one's going fast.

[00:14:52.15] Remy: C and A are half way gone.

Allison: So we kinda don't know if C or A will go first.

Chase: We can go inside the (inaudible).

[00:15:11.27] Remy: Why is everyone here?

Chase: Yeah why is everyone watching us?

[00:15:25.07] Allison: I think that um C is gonna be first.

Chase: You mean second, after this one [B].

[00:15:41.26] Student: One third left.

Allison: No more writing.

Chase: After I finish my actual (inaudible).

[00:16:01.12] Allison: Eleven and a half minutes.

[00:16:08.22] Allison: Write for C at eleven and a half minutes, C has small spots and one big spot.

[00:16:17.02] Chase: A is going first, for sure.

Allison: And A has one big spot.

[00:16:40.12] Allison: Okay, C now there's only two spots at twelve minutes.

Chase: A is definitely going.

[00:17:07.12] Chase: A is going next.

[00:17:13.15] Allison: C at um twelve and a half minutes um-

[00:17:53.24] Allison: Okay, so write for B the cracks are almost gone.

[00:18:11.24] Chase: This one's gonna go next [A].

[00:18:36.08] Remy: B and A then C.

Allison: It's fourteen minutes.

[00:19:17.28] Allison: K, so A. Write for C.

Chase: A is almost gone.

[00:19:23.25] Chase: A has I'd say at most five minutes.

[00:19:31.19] Allison: Fifteen minutes.

[00:19:58.23] Chase: C is close.

Allison: Fifteen and a half minutes.

[00:20:03.00] Remy: So probably at-

Chase: Brittany stepped right on our puddle.

Daniel: Who did?

[00:20:07.19] Chase: Brittany stepped right on C.

Allison: Not on the puddle. There's be marks. After all.

Remy: How many minutes?

[00:20:26.12] Chase: A is almost gone in like 30 seconds.

[00:20:34.12] Allison: A is gone in the cracks.

Chase: The cracks don't count. It's gone.

Daniel: Yeah, B's still even going.

Allison: K, sixteen minutes. A's gone.

Chase: And this one's third.

[00:21:03.25] Allison: Okay, so. You have to write the actual.

Chase: Ms. H. [to Allison] That's exactly what I put.

_____ **THE HOTTEST ONE EVAPORATED LAST** _____

[00:21:21.01] Chase: Ms. H. The hottest one evaporated last.

[00:21:25.20] Ms. H: Hottest water evaporated last.

[00:21:28.14] Allison: Yeah and the room temperature one evaporated the first.

[00:21:31.16] Daniel: I think-no but. I-

Ms. H: So what's going on with that?

[00:21:35.27] Daniel: I think-

Chase: Uh, if the cooler it is, the more heat it's exposed to.

Unknown speaker: Ooooo!

[00:21:40.10] Ms. H: So you think it'll absorb more heat just because it's cold?

Chase: Yeah.

[00:21:44.09] Ms. H: I don't know. I'm asking.

Daniel: But I also think-

Chase: Right now that's what I think.

[00:21:49.03] Ms. H: So how can you figure out if that's it?

Daniel: I also think it's because that one-

[00:21:55.13] Chase: We could test colder temperatures instead of hotter ones.

[00:22:01.20] Ms. H: True, cuz now you're already saying it's not the hot one.

[00:22:08.16] Chase: Okay, so now that we've figured out the hottest will evaporate last, the coldest will evaporate first we could try different temperatures that are colder than the three we did.

[00:22:15.29] Daniel: I don't like the test area. I thought the test area was way too different. (Chase: let's try it). That one was smooth.

[00:22:21.15] Chase: No they all had cracks.

Daniel: No! This one's like-

[00:22:24.07] Chase: This one had cracks. (Daniel: look right here) This one had cracks. That one had cracks.

[00:22:27.11] Allison: They all had cracks.

Daniel: [pointing] There's like a dent. There's a dent right there. There's a big dent in this (inaudible). The dent's like this deep.

[00:22:33.20] Chase: They all had cracks.

Daniel: But the dent made that one like easier.

[00:22:38.04] Allison: Okay, so now do we do colder temperatures? How are we gonna do that?

Daniel: [touches the asphalt where two of the puddles were]

[00:22:41.28] Remy: We're gonna test one. We can put one in a freezer for like 5 minutes and one in a freezer for like 2 minutes (Chase: no no no) maybe.

[00:22:50.06] Chase: We're going to need to use a freezer tomorrow.

Ms. H: Why?

Chase: To test colder temperatures.

[00:22:57.03] Ms. H: There's an ice over there still. There's some ice on the thing.

[00:23:17.16] Remy: Are we gonna test one with ice and one regular?

[00:23:18.12] Chase: We're gonna test colder.

_____ **INSIDE GETTING MATERIALS** _____

[00:23:45.00] Remy: Guys what time is it!? C has evaporated.

Allison: Um, eighteen and a half minutes.

START ROUND TWO

[00:28:54.19] Allison: Ready, set.

[00:29:01.23] Chase: We need the ice.

Chase: Remy, did anyone take the chalk.

Remy: No.

...

[00:30:13.23] Remy: This one is spreading a lot more than A.

ICE ON GROUND

[00:30:53.02] Daniel: Why don't we put some ice on the ground and see how fast it-

[00:30:56.21] Chase: We can test another one.

[00:30:57.23] Daniel: Chase, look out.

Chase: That looks cool.

[00:31:18.13] Chase: It's all melting.

[00:31:52.26] Remy: At two minutes.

Remy: Three minutes.

[00:32:39.06] Chase: This one's thinning right here.

[00:32:45.20] Chase: This one's still really spreading.

[00:32:57.27] Remy: Three minutes and fifty seconds.

[00:33:17.19] Remy: A has dry spots at-

Chase: A is steaming. A is steaming.

Remy: A is steaming at-

Chase: (inaudible) steaming. B doesn't.

[00:33:48.01] Daniel: I think B is getting more water vapor I think.

Remy: Which one has water vapor?

Daniel: A.

Chase: A.

[00:33:57.05] Chase: The (inaudible) one's too cold (inaudible) water vapor. That's what I think.

[00:34:03.22] Daniel: I don't believe that cooler. I just think it was just the area that we put it in was (a mess?).

[00:34:13.09] Chase: That's hot and that's cold. That's the one that had ice and (inaudible).

OUR THEORY IS WORKING

[00:34:20.16] Chase: Actually, that one's winning.

[00:34:23.12] Chase: Our theory that we tested it here. And the hottest evaporated last and the coldest one evaporated first.

[00:34:58.06] Daniel: Okay. B is toasting A.

Chase: Don't walk on it.

Daniel: B is toasting A.

[00:35:13.01] Chase: B is definitely winning. So our theory that coldest evaporates first is working. Maybe we need more ice.

[00:35:18.16] Remy: Coldest evaporates first. The warmer it is, the slower than the cold.

[00:35:27.12] Allison: That's weird.

Remy: Yeah that is weird.

[00:35:32.19] Allison: Ooh! It's kinda like when you go in a pool and a jacuzzi.

[00:35:36.25] Allison: You go in the pool and then you go-you go in the pool then it's cold then you in the jacuzzi and it's hot. And it's even hotter than usual. So it's kinda like when-you know what I mean?

[00:35:48.09] Remy: [shakes her head no]

Daniel: Yeah