

Transcript for Video Clip 2.1

Teacher/video ID:	Griffin, 2.1_mspcp_gr.2_matter_griffin_pre_c1
Content area:	Properties of matter
STeLLA strategy:	Ask questions to elicit student ideas and predictions (STL strategy 1). Ask questions to probe student ideas and predictions (STL strategy 2).
Context:	In this interview clip, a 2nd grader describes what she thinks is the same or different about ice and water, whether water and ice can change, and what water might look like on a microscopic scale.

Video Clip 1

Time Code	Speaker	Discussion
00:00:00	S	There's some ice and some water.
00:00:01	T	There's ice and water. Do you think ice and water are the same or different?
00:00:05	S	No. Ice is kind of solid, and then water's, like, liquid.
00:00:09	T	OK. What do you mean by "kind of solid"?
00:00:12	S	Like, it's not really solid. So it's kind of like sesame solid. And water's just plain liquid.
00:00:21	T	OK. So this one's kind of a ... you said a semisolid. Was that right?
00:00:26	S	Mm-hm.
00:00:27	T	OK. And this one is a liquid.
00:00:28	S	Mm-hm.
00:00:29	T	What do you mean by a semisolid? And did you say not quite a liquid?
00:00:33	S	I said it's liquid.
00:00:34	T	OK.
00:00:35	S	So it's, like, it can be a little soft. And then ... then, like, solid, like this table is not really soft.
00:00:48	T	Mm-hm.
00:00:49	S	So that can be some kind of soft.
00:00:52	T	Ah, so it can be a little softer. That's kind of what you mean by semisolid?
00:00:54	S	Mm-hm. Mm-hm.
00:00:55	T	OK. Hmm. Can you ever change ice into water?
00:01:00	S	Yeah.
00:01:01	T	Yeah?
00:01:02	S	You can. 'Cause when the ice melts, it's kind of like water.
00:01:06	T	Uh-huh. Well, how would you get ice to melt?
00:01:08	S	Well, if there was Sun, you put the ice closer to the Sun, and then the Sun would make it melt.

00:01:16	T	Ah, so the Sun makes ice melt?
00:01:17	S	Mm-hm.
00:01:18	T/S	OK. / 'Cause it's really heat-y.
00:01:20	T	Oh, 'cause it's really heat-y. What do you mean by "really heat-y"?
00:01:23	S	Like, it's really hot.
00:01:25	T	Oh. OK. So when ... when the Sun is really hot and there's ice around, what happens to the ice?
00:01:31	S	The ice melts.
00:01:32	T	Oh, OK. OK. Hmm. Can you ever change this water into this?
00:01:41	S	No, you can't.
00:01:42	T	No, you can't. OK.
00:01:45	S	'Cause the ice is already the liquid.
00:01:49	T	Tell me more what you think about "ice is already the liquid."
00:01:52	S	Like when you keep it near the Sun, the ice melts.
00:01:55	T	Mm-hm.
00:01:56	S	So you can't turn the water back to ice.
00:01:59	T	Oh, so you can't turn the water back to ice?
00:02:02	S	Mm-hm.
00:02:03	T	Oh, so you can't do that. OK. Huh.
00:02:09	T	OK. Now let's say ... let's say that you were ... and I know you see water in the glass here, but let's say you were ... you were able to get very, very, very, very small.
00:02:22	S	Mm-hm.
00:02:23	T	Really small.
00:02:24	S/T	Mm-hm. / Like so small, if you were in that water ... let's say you were swimming, and you were really, really small, [and] I couldn't see you.
00:02:31	S/T	Mm-hm. / You're just that small.
00:02:32	S	Mm-hm.
00:02:33	T	OK? So if you were that small, or maybe even use a ... a real strong microscope, what would that water look like?
00:02:44	S	That water would look like me ... me, like, the ice that was gone.
00:02:53	T	OK. Tell me a little more what you mean by "the ice that was gone."
00:02:56	S	I ... you mean like from the heat ... the ice melts?
00:02:59	T/S	Uh-huh. / So if you look really closely into it with a micro-thingy, the ... it might look like there's still some ice in it.
00:03:08	T	Oh, there might look like there's still ice in it ... like ice pieces?
00:03:12	S	Mm-hm.

00:03:13	T	Oh. So if you were very small, or if you had a very strong microscope, and you were ... could look inside there, and you're inside there, you would see little ... maybe little ice pieces still?
00:03:21	S	Mm-hm.
00:03:22	T	Oh, that's ... that's ... that's interesting. Well, let's say you were here.
00:03:27	S/T	Mm-hm. / And let's say you were very, very small. You had a strong microscope.
00:03:30	S	Mm-hm.
00:03:31	T	What would you see in the ice?
00:03:34	S	I would see that there was a little bit of water in it, and then that it looks like it's kind of like glass inside it, so you can see out through it ...
00:03:49	T	Ah.
00:03:50	S	when you're really looking at the ice.
00:03:52	T	OK, so if you're really, really small, or you have a strong microscope, you said there would be a little bit of water in it maybe.
00:03:57	S	Mm-hm.
00:03:58	T	But then it'd also be like glass, like looking through glass.