Transcript for Video Clip 2.2

Teacher/video ID:	Griffin, 2.2_mspcp_gr.2_matter_griffin_L2_c2	
Content area:	Properties of matter	
STeLLA strategy:	Ask questions to probe student ideas and predictions (STL strategy 2). Ask questions to challenge student thinking (STL strategy 3).	
Context:	At the beginning of a lesson on matter, students predict what would make ice/water, chocolate, and crayons melt or freeze. In this clip, the teacher asks students to describe what they think would happen if they held a piece of chocolate in their hands.	

Video Clip 2

Time Code	Speaker	Discussion
00:00:00	T	What would happen if you held a piece of chocolate in your hand? Sarah.
00:00:05	SN	It would melt.
00:00:06	T	It would melt.
00:00:07	S	If your hand's hot.
00:00:08	Т	Ooh, I heard the word <i>hot</i> . Because your hand is hot. So that ha— Why does it happen? You think it's 'cause it hot it's hot? OK.
00:00:17	Т	So why doesn't it happen when the chocolate sits on the table? It's different than the ice. Why doesn't it melt? John Michael.
00:00:24	SN	Because it's a solid. And it if it was in really hot weather, it might, like, melt into a chocolate, like, cream.
00:00:33	T	OK.
00:00:34	S	It'd have have to be, like, really hot.
00:00:36	T	So if it was, like, 100 degrees outside
00:00:38	S	Uh-huh.
00:00:39	Т	and you didn't have the air conditioning in your house, maybe the table would get hot enough where the chocolate would melt?
00:00:44	S	Yeah.
00:00:45	T	That's what you're thinking?
00:00:46	S	Or maybe you put it, like, in an oven in a bowl, and it melts.
00:00:49	Т	OK. OK. So if you put [the chocolate in] an oven in a bowl, it would melt? OK. Because what are you what are you adding?
00:00:55	SS	Heat.
00:00:56	Т	OK. OK. Awesome. So let's see. We just discussed two examples of matter changing from a solid to a liquid, OK?
00:01:06	Т	Today's focus question is <i>How can matter change from a liquid to a solid or a solid to a liquid?</i>

00:01:12	Т	Can you summarize what caused the matter—the ice and the chocolate—to change in these two examples that we've been thinking about? What has caused it to change?
00:01:22	Т	Mmm. Alice, if your jacket is a distraction, I'm going to ask you to put it away. Thank you.
00:01:29	Т	Miss [inaudible], what do you think?
00:01:30	SN	The heat has caused it to melt.
00:01:32	Т	The heat has caused both the butter and I mean, both the both the ice and the chocolate to melt?
00:01:39	S	Mm-hm.
00:01:40	Т	OK. So do we think that maybe heat could be something that would cause something to change from
00:01:47	SN	A liquid—
00:01:48	T	from from a solid to a liquid, maybe?
00:01:49	SS	Yeah.
00:01:51	Т	Interesting. OK. So, yesterday or not yesterday. Excuse me. On Wednesday, we had some butter. It didn't exactly look like this, OK, 'cause that other butter got tossed, OK?
00:02:03	Т	So what I did was I melted this butter yesterday, and then I kept it out. What has happened?
00:02:09	SS	It turned to solid.
00:02:10	T	It turned to—
00:02:11	SN	It won't get out that bowl.
00:02:13	T	OK, but it was it was melted. What what happened? Who has an idea?
00:02:17	S	Me.
00:02:18	Т	Who have I not heard from? Miss Amelia.
00:02:21	S	So when you left it out probably overnight, it must've been really cold, so it started to fro to freeze the the butter,
00:02:38	S	so that way it would be a a solid, since nights go superlong, like over one hour.
00:02:47	T	OK. So so because I left it out for so long, it turned from a solid to a liquid? And it became hard again. Is that what you're saying, Amelia?
00:02:58	S	Yeah.
00:02:59	Т	OK. I'm sorry that you got distracted. People weren't being the most respectful listeners. Herman, what did you want to say?
00:03:04	SN	I wanted to say just like a volcano erupt it erupts, and so in the volcano, it's hot because of the fire and stuff.
00:03:17	S	And when it gets out, there's no fire because it's out of the volcano and and maybe the fire didn't reach the thing.
00:03:28	T	OK, so so when the fire comes out of the volcano

00:03:31	S	Yeah.
00:03:32	T	it it's it's not hot anymore? Like the lava. Is that what you're talking about?
00:03:35	S	Yeah.
00:03:36	T	OK.
00:03:37	S	So the lava lava just like if it it's like it's just like if it gets cool. Like it everything has in the so it would turn, like—
00:03:55	T	Solid?
00:03:56	S/T	Yeah. Becau— / Is that what you're talking about?
00:03:57	S	it would turn into, like, a rock.
00:03:59	T	OK. Interesting. All right, so way to take this example [and] think about something else.