

## Transcript of Video Clip 3.2

Teacher/video ID:	Potter, 3.2_stella2-04-potter4-L4_C9
Content area:	Earth's changing surface
STeLLA strategy:	Engage students in constructing explanations and arguments (strategy 5).
Context:	In this lesson, students are constructing explanations and arguments for how plants or freezing and thawing water can change Earth's surface and wear down landforms over time.

### Video Clip 2

Time Code	Speaker	Discussion
0:00:01.8	T	Nice job. Anybody have any ideas on that? How can plants or freezing and thawing the water change the surface of the Earth?
0:00:11.6	T	Gavin, go for it.
0:00:13.0	SN	It could change the Earth because when we talked about the rock exploding when freezing water got into it, mountains are mostly made out of rock,
0:00:26.8	S	so if ice keeps going into the rock, the rock might, like, blow up, and the mountain might keep lowering.
0:00:36.7	T	OK. So how— Let me try to summarize this, right? So because the mountain is made out of rocks, water could get into a rock and break down all the rocks. Is that what you're saying?
0:00:46.4	S	Yeah.
0:00:47.1	T	OK. Into smaller pieces. What do you ... Stephanie, what do you think about what he said?
0:00:52.7	SN	I kind of agree and kind of disagree.
0:00:56.5	T	OK. Let's hear that.
0:00:58.3	S	The ... because my ... my entrance is the water that freezes and thaws will mess with the creating ... the creation of rocks, but it will also make more rocks ...
0:01:12.1	S	rocks with the broken pieces that have ... that have been created by the frozen process.
0:01:16.6	T	So you're saying that at one place, then, where there are, like, maybe five rocks after that process happens, there could be a lot of rocks?
0:01:24.7	S	Yeah, because ...
0:01:24.9	T	So you're actually creating more rocks?
0:01:25.9	S	because it will ... the rocks will have been chan ... changing temperatures and will ... will mess with it, and it will crack in half, I think.
0:01:35.6	T	So where would you get the evidence from ... to support that?
0:01:38.3	S	The can ... the can ... the frozen can, because if it changes ... if it changes temperatures quickly, it ... it cracks like those did.
0:01:48.0	T	OK. Anybody else have any thoughts on that? Go for it.

0:01:52.7	SN	I agree with Gavin, because, like, if there ... if the ... if there was water going down the mountain, then it could, like, get into the rocks, and it may pull it down ...
0:02:08.0	T	OK.
0:02:08.4	S	a little, 'cause the rocks might ... they might get too much water ... Too much water may get into the rock, and it might make it ka-ploosh.
0:02:19.9	T	Just ...
0:02:20.2	S	Yeah.
0:02:20.7	T	regular water? Does something have to ...
0:02:21.9	S	Yeah.
0:02:22.2	T	something have to happen to the water? Or just water in general?
0:02:25.8	S	Water in general.
0:02:27.0	T	OK. You have evidence for that from around here?
0:02:31.0	S	Um ...
0:02:31.6	T	Or from the investigations?
0:02:33.4	S	No.
0:02:34.2	T	OK. It's just a thought?
0:02:38.3	T	All right. Let's move on to the next question real quick. Maybe ponder that one for a second. Made me think. OK, one more ...