

## Transcript for Video Clip 2.1

Teacher/video ID:	Torres, 2.1_stella2-04-torres4-SI_pre_nick_c1
Content area:	Earth's changing surface
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 preinterview, a student (Nick), examines a map and discusses his understanding of how mountains form.

### Video Clip 1

Time Code	Speaker	Discussion
00:03:35.6	I	So, when you look at this map, where do you ... where do you notice mountains are ... mountains are?
00:03:39.8	S	Mostly over here.
00:03:40.9	I	Mostly over here.
00:03:41.7	S	Mm-hm.
00:03:42.3	I	OK, OK. Do you think there's always been mountains there?
00:03:46.1	S	Um, no. It's ... it's pro— The ... um ... they probably started out flat, and then it start ... it started to, like ...
00:03:54.9	S	the mountain started to get bigger and ... like that.
00:03:58.1	I	OK. Tell me a little bit more about mountains getting bigger.
00:04:01.9	S	Well, I ... I forgot how they get bigger, how they, like, form up.
00:04:09.2	S	But, like, I think what I ... I think that how they get formed up— They ... they, um ...
00:04:18.4	S	Well, they, like, it rains, and then sand, like, gets ... and it gets wet, so then sand sticks to them.
00:04:28.2	S	And then it gets bigger and bigger.
00:04:29.7	I	OK.
00:04:30.7	S	So ... so, that's what I think. I don't know.
00:04:33.0	I	OK, so things get wet, and then sand sticks to it. What ... what things get wet?
00:04:37.0	S	Um, like, little, like, well, like, pebbles and stuff.
00:04:44.7	S	I don't know. That's what I think.
00:04:46.9	I	OK. So, like, Pikes Peak— If you think about Pikes Peak out here—
00:04:51.1	S	Mm-hm. Oh, well, some are, like, made out of, like, from, like, lava, and it hardens up.
00:04:58.3	I	OK, OK.
00:04:59.8	S	So then, that's what sometimes gets formed with, um, well, a lot, um, like, burnt— Volcanic gets burnt, and it forms up a mountain.
00:05:15.1	I	OK. So you have ... You said one is lava ...

00:05:17.7	S	Mm-hm.
00:05:18.6	I	... can form a mountain.
00:05:19.6	S	Yeah.
00:05:20.0	I	And then another way is that you maybe start with— Like here, if it was flat, and you may have some pebbles and stuff.
00:05:25.0	I	And then you have some water, some rain, and then sand sticks to it.
00:05:29.6	I	Can you tell me a little more about that?
00:05:31.1	S	Well ... well, I think I most ... mostly say it's volcanic.
00:05:38.6	S	I don't know. I was just kind of ... um ... think what else.
00:05:43.3	S	Um, that's all I kind of know about that forming ... forming.
00:05:47.2	I	OK. So really, you're thinking, well, maybe it's a bit more volcanic.
00:05:50.8	I	Um, do you still think it's possible that there could be, like, pebbles and water, rain ...
00:05:55.0	S	Yeah.
00:05:55.8	I	and then stuff sticks to it, and it gets bigger and bigger?
00:05:57.7	S	Mm-hm.
00:05:58.6	I	OK.
00:06:00.0	I	Let's look at, like, Pikes Peak.
00:06:03.6	I	Or any mountain. Let's just look at ... look at any mountains.
00:06:07.4	I	Can mountains grow so tall they reach outer space?
00:06:09.8	S	Unh-uh.
00:06:10.4	I	They can't.
00:06:11.0	S	Unh-uh.
00:06:11.7	I	Tell me a bit more.
00:06:12.7	S	They ... they have to, like, well, like, Mount Everest is really tall, like, because it ... it might have been a, like, volcano.
00:06:24.5	S	And then it ... it was active, and now it's no longer active.
00:06:29.2	S	So, the volcan ... volcanic is all over, and it get ... it gets really high and really big.
00:06:38.3	S	And then there's other ones that are small because they ... they're ... they don't grow as big as, um, like, the ... as big as, um, other mountains.
00:06:49.9	I	OK. So as they grow so tall ... So they can't grow so tall they reach outer space.
00:06:53.5	S	Unh-uh.
00:06:54.5	I	OK, but there are some mountains that are bigger than others.
00:06:56.6	S	Mm-hm.
00:06:57.3	I	OK. So once they get to whatever height they get to, do they just always stay that tall?
00:07:04.8	S	Well, no, it could grow bigger.

00:07:07.0	S	Yeah, it could grow bigger by, like, by raining, and it forming and, like, the rocks getting together and forming each other.
00:07:18.9	I	OK, do they ever get smaller, or do they always just keep growing bigger?
00:07:23.0	S	No, they ... they all ... they always get bigger because there ... Pretty much there's no way if it's already got formed as a big rock mountain,
00:07:32.7	S	there's nothing that can actually kind of get ... make it smaller.
00:07:37.6	I	OK, OK. So if we look at these two mountains, these ranges, we have ...
00:07:42.1	S	Mm-hm.
00:07:42.8	I	you know, the Rockies and the Appalachian Mountains.
00:07:44.7	S	Mm-hm.
00:07:45.3	I	So when you look at those, what differences do you see?
00:07:48.1	S	Well, that one's more, like, rockier, like, the ... rocky and that.
00:07:54.5	S	So like it has a mountains, but not a ... a lot as the ... all these on this side, because this side, it might have been, like,
00:08:06.0	S	not as many volcanoes there or, like, and it rains that much.
00:08:10.5	S	The ... this side— It probably— There's a lot of volcanoes, and it rains a lot.
00:08:15.8	I	OK, so it doesn't rain as much over here, and it rains pop ... maybe more over here— Not as many volcanoes—
00:08:21.6	S	Yeah.
00:08:22.4	I	More volcanoes over here?
00:08:23.4	S	Mm-hm.
00:08:25.1	I	So let's say if this keeps getting rain, could these ever look like this?
00:08:29.8	S	Yeah, it could grow bigger than these maybe, because the rocks keep on make ... forming up to make a bigger, um, mountain.
00:08:44.3	S	And ... mm-hm.
00:08:46.0	I	You said they can never reach outer space, though.
00:08:48.6	S	Unh-uh. I don't think so.