Transcript for Video Clip 2.2

Teacher/video ID:	Kawamura, 2.2_stella_GEN_kawamura_L2.1_c4
Content area:	Genetics
STeLLA strategy:	Ask questions to elicit student ideas and predictions (STL strategy 1). Ask questions to probe student ideas and predictions (STL strategy 2). Ask questions to challenge student thinking (STL strategy 3).
Context:	Previously, students predicted what the offspring of short- and long-haired dachshunds might look like. Then the teacher revealed that all of the puppies have short hair. In this clip, the teacher asks students what they think happened to the long-hair trait.

Video Clip 2

Time Code	Speaker	Discussion
0:00:01.8	T	What do you think happened to the long hair?
0:00:04.3	SN	They cut it off.
0:00:06.5	T	What happened to it? It just didn't ... What happened, Arion?
0:00:09.9	SN	Well, in our group, we were discussing, like, stronger genes. Like, if there were two stronger genes, maybe it's just a 50-50 chance.
0:00:17.2	S	Or if there's two weak genes, probably a 50-50 chance. And if there's a weak and a strong, probably a better chance of another gene ... of the gene that was stronger.
0:00:29.1	S	So we pretty much thought maybe that the short-hair one had a stronger gene of hair. So that'd probably beat the other one.
0:00:38.4	T	All right. Hannah.
0:00:39.6	SN	OK. So, like we were saying ... like Arion was saying, kind of like we ...
0:00:44.2	S	I didn't know, but I was expecting them to either come out all long hair or all short hair, 'cause I didn't know which one was stronger.
0:00:52.7	S	But it's kind of like ... This is going back to kind of, like, the surprising part. Like, you don't have, like ... Let's go back to my dad and my mom.
0:01:00.1	S	My dad has blue eyes, and my mom has brown eyes. So it was kind of like I'm not going to have half one brown and one blue eye. One is going to take over.
0:01:11.5	S	And so I have just brown eyes. So it's kind of like you're not going to get ... That's why it didn't really surprise me that they weren't, like, medium-length-hair dogs.
0:01:23.6	S	Like, it was either going to be one or the other ...
0:01:26.2	T	OK.
0:01:26.5	S	Kind of thing.
0:01:27.6	T	Now, Chloe, you did think that the hair was going to be medium [length]. So what are your thoughts on what happened to the long hair?
0:01:34.4	SN	Like, so just as an example, both my parents are relatively short, and I am, for a 12-year-old, [I] am short.
0:01:41.7	S	But if my nine-year-old brother is up to here on me now, and ... I was just thinking that the gene may have only temporarily disappeared, because my grandpa is also really tall.

0:01:52.6	S	So the gene might have disappeared here, but now if one of those has babies, then it might be long haired.
0:01:58.6	T	Oh. That's an interesting thought. Dylan, what do you want to ask or say?
0:02:03.9	SN	Well, I'm inferring on this. What could've happened is if the long-haired dog had two parents, and one was long and one was short,
0:02:15.2	S	but the short-haired dog had two parents that both had short hair, that could affect the genes that are carrying over to those puppies.
0:02:23.9	T	So what are you saying? What do you think their puppies would then look like?
0:02:27.9	S	Hmm.
0:02:31.7	S	Well, I'm saying it depends on who they mate with.
0:02:34.3	T	So you said two short-hairs maybe mate. So what could happen, do you think?
0:02:38.8	SN	A long-hair …
0:02:41.1	SN	A long-haired [puppy] could be born.
0:02:42.9	T	Oh, so you agree with Chloe. You think that a long-haired puppy could be born even though two short-hairs mate? And what if two long-hairs mate? What could happen?
0:02:50.7	S	It could've been short, yeah.
0:02:52.0	T	Huh.
0:02:52.2	SN	It could be a short-hair.
0:02:53.3	T	That's wonderful.