## Transcript for Video Clip 2.1

| Teacher/video ID: | Kawamura, 2.1_stella_GEN_kawamura_pre_tiernan_c1 |
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| Content area: | Genetics |
| STeLLA strategy: | Ask questions to elicit student ideas and predictions (STL strategy 1). Ask questions to <br> probe student ideas and predictions (STL strategy 2). |
| Context: | In this preinterview, a student looks at images of three generations of people and discusses <br> his understanding of traits as they relate to dominant genes. |

Video Clip 1

| Time Code | Speaker | Discussion |
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| $0: 00: 00.9$ | T | So OK, so you said Julia ... maybe her orange hair was dominant over [Thomas's]. But then <br> Angelie's dark hair was dominant over Edward's orange hair. |
| $0: 00: 12.9$ | T | So here, orange hair was dominant. Here, it wasn't. So how do you explain that? |
| $0: 00: 21.1$ | SN | Uh ... |
| $0: 00: 21.6$ | T | Why wouldn't this ... if this was orange hair ... [be] dominant over that ... Why <br> wouldn't this orange hair be dominant over that? |
| $0: 00: 28.7$ | S | Well, it might be because it's an orange ha ... oran ... I think genes also kind of de ... Like, <br> all genes have a gender. Like, since I'm a boy, I guess all of my genes are technically <br> boys. |
| $0: 00: 45.6$ | T | Uh-huh. |
| $0: 00: 46.1$ | S | So it might be, like, girl orange hair is more dominant over boy brown hair. But girl <br> brown hair is more dominant over- Well, girl black hair is more dominant over boy <br> orange hair. |
| $0: 00: 57.3$ | T | OK, OK. Cool. |
| $0: 01: 01.1$ | T | So if you know what two parents look like, can you say for sure what their kids will <br> look like? |
| $0: 01: 10.0$ | S | Not necessarily, because ... |
| $0: 01: 11.8$ | T | Why? |
| $0: 01: 12.6$ | S | Because you'll never know if, like, sometimes, like, sometimes the parents can both <br> have brown hair, but then their child ends up having orange hair. |
| $0: 01: 25.2$ | T | Oh, how's that happen? |
| $0: 01: 25.8$ | S | Like, maybe it's, like, the combination of the two. |
| $0: 01: 31.7$ | T | So they- |
| $0: 01: 32.0$ | S | I guess kind of like two of the same, like, too much of the same can't be good or <br> something like that, you know. |
| $0: 01: 42.6$ | T | So they had two brown-haired parents, but they could have an orange-haired- |
| $0: 01: 46.9$ | S | Child, uh-huh. There's, like, a small possibility of it. |
| $0: 01: 50.4$ | T | Yeah. Actually, that happened to me. |


| $0: 01: 54.0$ | S | Like- |
| :--- | :---: | :--- |
| $0: 01: 54.4$ | T | I had a re ... an orange-haired kid. And I don't have orange hair, and neither does my <br> husband. |
| $0: 02: 00.1$ | S | Yeah, like, I know a friend of mine has brown hair, but both of her parents have blond <br> hair. But it might also depend on, like, generations above. |
| $0: 02: 11.6$ | T | OK. Talk about that a little. |
| $0: 02: 13.6$ | S | Because my friend ... has blond hair, but both of her parents have brown. Her great- <br> grandpa also has blond hair, and so that might've affected her. |
| $0: 02: 23.8$ | T | OK, and does that have anything to do with genes? |
| $0: 02: 26.4$ | S | Yeah, like the ... I'm saying that both genes go into the person- |
| $0: 02: 31.7$ | T | Uh-huh. |
| $0: 02: 32.0$ | S | But one gene shows up more. |
| $0: 02: 35.0$ | T | Uh-huh. |
| $0: 02: 35.6$ | S | So, like, he could still have Edward's orange-hair gene, so it ... he could ... he ... <br> There's a possibility of him having an orange-haired child. |
| $0: 02: 44.8$ | T | OK. Got it. |
| $0: 02: 50.9$ | T | So, like, if a baby, like a mother is pregnant, you know, she's having a baby, and he's <br> growing in the womb, how does that baby ... |
| $0: 03: 01.8$ | T | how does it know what color hair to have, or what ... how ... you know, how tall or short to <br> be? Is it the genes? |
| $0: 03: 13.0$ | S | It's really the genes. I imagine it ... it sounds kind of funky and far-fetched, but I imagine <br> it as the genes, like, get into a wrestling match or something; like they fight over it. |
| $0: 03: 26.2$ | T | Uh-huh. |
| $0: 03: 26.6$ | S | And then the one that wins is more dominant, and then the other one is weaker, so it's <br> kind of like a ... |
| $0: 03: 33.4$ | T | Uh-huh. |
| $0: 03: 33.8$ | S | bigger one and a smaller one. |
| $0: 03: 36.0$ | T | So which genes are fighting? |
| $0: 03: 39.3$ | S | Like, the hair gene ... the two hair genes would fight [and] the two skin-color genes <br> would fight. |
| $0: 03: 43.4$ | T | Do you mean, like, one from the father and one from the mother? |
| $0: 03: 45.6$ | S | Yeah. |
| $0: 03: 46.1$ | T | Got it. OK. That's an interesting image of the fighting genes. |

