Transcript for Video Clip 8.2

Teacher/video ID:	Scott Knight, 8.2_stella_et_knight_L5_c2
Content area:	Energy transfer
STeLLA strategy:	Make explicit links between science ideas and activities (SCSL strategy F).
Context:	The teacher sets up the lesson activity by engaging students in diagramming and labeling energy transfers and transformations in the crash between Mumford and Leroy from the previous two lessons.

Video Clip 2

Time Code	Speaker	Discussion
0:00:03.5	T	I'm going to record some of your thoughts up here. And just a few at that.
0:00:10.7	T	Gillian, what would you like to add? Where does energy come from? Where does energy go?
0:00:16.4	SN	Well, I put energy comes from other objects. And then energy goes to, like, us people and, like, other objects.
0:00:29.4	T	How does it get from one object to another object?
0:00:35.2	S	Like, say a toaster … you have to plug it in to get energy. So you get energy from, like, the plug in the wall.
0:00:43.4	T	How does it get from the outlet in the wall to the inside of the toaster, the mechanism of the toaster?
0:00:49.0	S	The plug. Like, the plug that you plug into the wall.
0:00:52.7	T	The wires.
0:00:56.1	T	Great. Lex.
0:01:00.9	SN	Energy comes from reactions, like Mumford putting his foot on the pedals, and also other energy. And energy … and energy goes by transferring.
0:01:16.4	T	Sometimes when you guys say something, it gives me goose bumps.
0:01:20.2	T	He just real quickly said, "Oh yeah. It comes from other energy."
0:01:24.3	T	He had all that kinetic energy going down the hill because he had the potential, and then he dropped in the word *transfer*,
0:01:29.8	T	which is exactly what Jilly was saying when she said, "Yeah, we've got electricity to our houses; then it gets transferred to the toaster."
0:01:39.1	T	That's scientific and delicious.
0:01:42.9	SN	[Inaudible]
0:01:43.7	T	All right. Couple more. Ryland.
0:01:46.4	SN	Energy comes from where the object is, and energy goes to transferring, like, say, this decks … desk had wheels,
0:01:58.3	S	and it moved it, and you stopped it. It tra … it's transferring energy from kinetic energy to potential energy.
0:02:12.7	T	So potential to kinetic. We say it transfers from object to object, like kinetic. The costume is the same, but when it changes costume, it changes the word.
0:02:25.0	T	So energy forms can change. I want to ask you about this. This'll close up … If you want to borrow any of this, you're very welcome to, by the way.

0:02:32.3	T	You said where it is. Explain to me … what does … what does that mean?
0:02:34.8	S	Like, Mumford at the top of the hill; he has no kinetic energy.
0:02:40.3	T	Yeah. But he has all kinds of …
0:02:42.9	S	Potential energy.
0:02:46.1	T	And I'm going to use our abbreviation here.
0:02:48.4	SN	PE?
0:02:48.9	T	No, that's not gym class. Potential energy.
0:02:52.0	T	Wow. That's the best question you've answered all … all lesson long. Listen, except for … I guess this is where we're going to need to put our thoughts today: Where does that energy go?