

Transcript for Video Clip 6.5

Teacher/video ID:	Scott Knight, 6.5_stella_et_knight_L4_c1
Content area:	Energy transfer
STeLLA strategy:	Select activities that are matched to the learning goal (SCSL strategy C).
Context:	The teacher sets up the lesson with a focus question, and students share their initial ideas for answering the question.

Video Clip 5a

Time Code	Speaker	Discussion
0:00:01.8	T	Here you go, kids. So here's our lesson today and the question that we're going to put out there right now: "Where does the energy from a moving object come from?"
0:00:12.0	SN	The fast part.
0:00:14.2	T	So write the question down. We write the question down 'cause it gets the juices flowing just a little bit, and then you're going to CSIQ [Complete Sentences Including the Question] that answer just real quick.
0:00:21.2	T	I'm counting on you, kid. I'm counting on you. In fact, I might even come over and ask you. I know you're a thinker.
0:00:28.8	T	So what we're talking about here, gang, is we're talking about Mumford at the top of that hill.
0:00:34.6	T	All of a sudden he's got all this motion energy, kinetic energy. He's just going down that hill as fast as can be.
0:00:41.4	T	Where does that energy come from?

Video Clip 5b

Time Code	Speaker	Discussion
0:00:49.5	T	Let's listen. I'll let a couple kids volunteer. If you don't know, it's OK, 'cause remember, at the end of our lesson, we're going to come back, and we're going to be asked the same question.
0:00:58.4	T	You're going to have a chance to revise. If we can answer the question today, we will have met our goal.
0:01:03.9	T	So I'm going to go ... I'm going to go just like this. I'm going to go Taylor, Connor, and then Sid. If you're ... if you're done, I'd like to hear what you have to think.
0:01:12.1	T	Hmm? Can you try? Try, try.
0:01:19.4	SN	The energy comes from the potential energy built up inside.
0:01:23.6	T	You know, you used potential energy the other day.
0:01:27.8	T	What do you know about the word <i>potential</i> ?
0:01:30.0	S	Potential means what is to be. So something that could happen.
0:01:37.9	T	Hmm. Could it potentially snow today?
0:01:43.9	T	It's not going to, but it could. Is that what you mean?
0:01:46.2	S	Mm-hm.

0:01:46.5	T	All right. Thanks.
0:01:50.2	T	So she used a term, <i>potential energy</i> . We haven't used that yet at all.
0:01:56.2	SN	The energy of a moving object could come from another moving object or the pull of gravity.
0:02:02.4	T	Hmm. Well, what about Mumford at the top of the hill? Is there another moving object influencing him?
0:02:07.8	S	His ... he pushed his feet off ...
0:02:09.4	T	It's true.
0:02:09.7	S	to move him.
0:02:10.5	T	It's true. It says so right in the text: "a gentle push."
0:02:14.1	T	He ... she said potential energy, Sidney. He said gravity. Is gravity energy?
0:02:20.3	SN	Mm-hm.
0:02:20.6	SN	Yes, sir.
0:02:21.8	T	I don't know. Let's find out. If you like any of those thoughts, as you know, when we do science right now, you can ...
0:02:28.1	SN	[Inaudible]
0:02:28.8	T	borrow some of that stuff. But we're going to come back to that.