

Transcript for Video Clip 6.2

Teacher/video ID:	McCabe, 6.2_role001-2-284-lvtf_300_mccabe_c3
Content area:	Food webs
STeLLA strategies:	Summarize key science ideas (SCSL strategy I). Engage students in making connections by synthesizing and summarizing key science ideas (STL strategy 7).
Context:	In previous lessons, these 5th-grade students learned a scientific definition of <i>food</i> : <i>matter that contains energy living things can use to live and grow</i> . They also studied how matter and energy move between producers, consumers, and decomposers in food webs. In this lesson, students traced energy flow in food chains and food webs, such as in their cricket terraria. This video clip appears at the end of the lesson.

Video Clip 2

Time Code	Speaker	Discussion
01:05:10.11	T	Who said that earlier? So you were correct, Agavni. Nutrients do not have Calories. Therefore, nutrients do not provide what?
01:05:19.14	SS	Energy.
01:05:20.13	T	Energy, OK? They provide matter. And they provide important matter. And they are very important. But we cannot live by nutrients alone.
01:05:29.12	T	Remember when we did that lesson about vitamins?
01:05:31.09	SN	Yeah.
01:05:32.11	T	We can't live by vitamins alone. OK? Any questions about anything that we did today?
01:05:40.14	T	Can you just write down in your journal one thing that you learned for sure today?
01:05:45.17	SN	[Inaudible] ... science.
01:05:48.13	T	Lots of science. You guys, I'm really proud of how you're really talking like scientists. You sound really—
01:05:54.28	T	even when you're saying things you're not sure about, which is really good.
01:05:58.16	T	Edvin, when you talked about nutrients, and you weren't correct about it, that was really good scientific talking.
01:06:05.06	T	And that's how we work through that. And that's not a bad thing.
01:06:07.04	SN	OK.
01:06:08.01	T	OK?
01:06:09.05	S	Yeah.
01:06:11.22	T	Take about one minute, and then that's it. And let me know if you have any questions.
01:06:17.22	SN	I have a question about our terrariums.
01:06:19.16	T	Yeah.
01:06:20.25	S	What if the plants all ... all of them just die in here. And the crickets are still alive? What will happen?

01:06:26.13	T	OK, what will happen?
01:06:28.18	S	The crickets will die too?
01:06:30.07	T	Why?
01:06:31.12	SN	Because they'll have no food.
01:06:32.19	SN	Because the crickets, they'll have no food. And crickets eat plants to get energy.
01:06:36.02	T	And then? OK, so the crickets will die. And then what will happen to your terrarium?
01:06:40.17	S	Uh, decomposers will eat the crickets?
01:06:45.02	T	OK. And what about the plants ... the dead plants? Luis, what's going to happen to the dead plants?
01:06:51.20	S	Oh.
01:06:52.28	SN	Um ...
01:06:57.10	T	Will they just sit there?
01:06:58.26	S	No, no. The decomposers are going to eat them?
01:07:01.12	T	OK. How will that happen?
01:07:03.29	SN	By—
01:07:05.12	SN	They're going to start—
01:07:06.02	T	What?
01:07:07.08	S	They're going to—
01:07:08.04	T	Speak up.
01:07:10.17	SN	Louder.
01:07:11.18	SN	They're going to start by eating the dried plants.
01:07:18.00	T	How are they going to do that?
01:07:19.15	S	By—
01:07:20.29	T	Yeah?
01:07:21.24	SN	I think that the ... the crickets are going to eat the dead leaves.
01:07:24.26	T	The crickets are? We're talking about what about after the crickets are dead, and all your plants are dead. What's going to happen?
01:07:30.20	S	[Inaudible] ... decomposers. The decomposers are going to eat the—
01:07:33.25	T	All the dead stuff.
01:07:34.18	S	Yeah.
01:07:35.14	T	What's it going to look like in here?
01:07:37.01	SN	Um ...
01:07:41.07	SN	It would be all dry. And fungus would be inside.
01:07:43.28	T	Fungus will be inside? Oh. It might happen. We'll see. I hope not. But it might.
01:07:48.06	SN	And ... and the energy will be released as heat—
01:07:49.00	T	OK.

01:07:50.23	S	when they [the crickets] die.
01:07:51.13	T	That's right. That's right. OK.
01:07:58.06	T	Anybody want to share one thing they learned? Just one person. I'm just going to pick ...
01:08:01.10	T	I'm just going to pick a number. Daisy, what did you learn today?
01:08:05.04	SN	Um, that we start from the Sun and [get energy] from others.
01:08:12.14	T	What do you mean "We start from the Sun"?
01:08:14.01	S	Um ...
01:08:15.22	T	What do you mean "we"? What word have we been talking about today?
01:08:19.12	SN	Energy?
01:08:20.06	T	Energy does what?
01:08:22.10	S	Um, [it] gets energy from the Sun.
01:08:26.25	T	Energy gets energy from the Sun.
01:08:28.07	S	Yeah, the Sun gives—
01:08:29.13	T	Energy starts—
01:08:30.07	S	Starts off with the Sun, and ends up with the decomposers.
01:08:33.18	T	And ends up in decomposers. And can we reuse that energy, once the decomposers is ... is ... are done with the energy?
01:08:39.06	S	No.
01:08:40.28	T	OK. Why not?
01:08:41.11	S	Because it can't be recycled.
01:08:43.10	T	OK, because energy can't be recycled. Very good. Good job, you guys. Great job. You can put your science journals away.
01:08:49.19	T	And we have, like, very few minutes to do our duties and take our homework out and get ready to go.