

Transcript for Video Clip 5.2

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Content area:	Food webs
STeLLA strategy:	Identify one main learning goal (SCSL strategy A).
Context:	In video clip 2a, students give their initial ideas about whether materials like water, juice, sugar, and plant food are food. After this clip, they read and discuss a scientific definition of <i>food</i> . Then they are shown how to read a nutrition label to see if the material has matter (mass) and energy (measured in Calories). In clip 2b, students are studying the nutrition labels of a variety of materials (e.g., water, sugar, juice, vitamins, plant food) to see if they contain both matter and energy and are therefore food by the scientific definition.

Video Clip 2a

Time Code	Speaker	Discussion
0:00:01.6	T	So what do you think? Do you all agree about what is food and what isn't food?
0:00:04.9	SN	Um ...
0:00:05.3	SN	Yeah.
0:00:06.1	SN	Well, I disagree that juice is food, because it's a liquid, and I think it's a drink.
0:00:10.8	SN	Well, I think it should, because, well, wa ... well, plants need water, which is also not a food, so water keeps it alive. So I think ...
0:00:24.2	T	OK. So you think juice is not [food], because it's a liquid.
0:00:27.9	SN	Yeah, juice and water and stuff like that, I don't think that it's a food.
0:00:31.4	T	So you think part of the definition of food is that it has to be solid?
0:00:34.6	S	Yeah.
0:00:35.0	T	But Brandon, you think the other side ... You think a liquid can be food too? So for you, what's the definition of food, if water's a food?
0:00:41.6	SN	If water's a food?
0:00:42.6	T	Mm-hm.
0:00:43.2	S	Shouldn't that be a liquid?
0:00:46.1	T	What makes water a food?
0:00:48.4	S	Well, it ... it has ... or it has nutrients and vitamins in it. And so does food. So ... and that's ... liquid stuff makes ... or helps you stay alive.
0:00:59.7	T	What do you think, Scotty?
0:01:01.6	SN	I think ...
0:01:02.9	T	You might be the tie-breaking vote.
0:01:04.8	S	Yeah, I ... I kind of agree with Brandon, because, like he said, food ... I mean water ... pass.
0:01:14.8	S	Food ... water has, like, vitamins in it that helps you live. So ...
0:01:23.5	T	So you think it's ... if something has vitamins in it that helps you live, that makes it food?

0:01:27.3	S	Mm-hm.
0:01:27.9	T	OK. What do you think? Are you persuaded?
0:01:32.8	SN	We can go with that, I guess.
0:01:34.0	T	OK.
0:01:34.2	S	I don't know. I'm not totally persuaded, but I kind of understand where it's coming from.
0:01:38.3	T	OK. All right, keep going. See if you guys ... see what else you think of the other things on here.

Video Clip 2b

Time Code	Speaker	Discussion
0:01:47.3	T	... onto yours. So what have you decided so far?
0:01:50.9	SN	That water isn't a food.
0:01:52.5	SN	It is.
0:01:53.2	T	That water is food?
0:01:53.5	SN	No, it's measured in grams, guys. Check.
0:01:56.6	SN	But it's still not food.
0:01:57.3	T	Where does it say that?
0:01:58.3	SN	No, no, it has zero grams.
0:02:00.6	T	Zero grams of what?
0:02:02.1	S	It ... of everything. Zero, zero, zero, zero. Calories, zero.
0:02:07.2	T	So you're saying ...
0:02:08.1	S	Calories.
0:02:08.6	T	So for ... whether or not this has mass, because it doesn't say anything on the nutrition information, your claim is that it doesn't have mass?
0:02:16.4	SN	No, it's ... it's measured in grams on some of the [inaudible], even though it's zero.
0:02:21.4	SN	So?
0:02:21.6	T	So what do you think? Does this have mass?
0:02:24.0	S	No.
0:02:24.6	SN	Yeah.
0:02:24.8	SN	Well, yeah, it does.
0:02:26.2	T	Does it? So it takes up space?
0:02:27.6	SN	Hey, that was actually my theory.
0:02:29.8	T	That was your theory. So what can you say? Does water have mass? Does it have grams?
0:02:36.0	SN	Yes.
0:02:36.5	SN	Well, yeah.
0:02:37.6	T	Now, it says zero, zero, zero on here. How do you know it's matter?
0:02:42.4	SN	Zero grams of what's in there.

0:02:43.3	SN	Oh. Because ... because you can hold it, and it weighs something.
0:02:47.0	T	There you go. So does it have matter? Does it have matter? Does it have mass?
0:02:52.0	SN	Uh ... uh ...
0:02:54.3	T	What do you think? Can you hold it?
0:02:54.7	SN	But it doesn't have Calories.
0:02:57.9	T	So both columns might not be "yes." But what about the matter and the mass? Does it have matter? Or is it matter?
0:03:07.6	T	Yeah. Kyle, what do you think?
0:03:09.3	SN	What?
0:03:09.6	T	Does this have mass?
0:03:10.5	SN	Yeah.
0:03:11.1	T	Yeah.
0:03:11.4	S	It weighs something. Doesn't weigh much, but it weighs something.
0:03:15.4	T	Good. So shall we say that again?
0:03:17.7	SN	But is it still a food by ... 'cause—
0:03:22.4	SN	No, because it has to have the mass.
0:03:24.8	SN	'Cause it doesn't have both?
0:03:27.2	T	What do you think?
0:03:27.4	SN	It needs to have both, because it has zero Calories.
0:03:30.4	T	OK. So it might have mass, but because it doesn't have Calories, can it be a food?
0:03:37.7	SN	No.
0:03:38.3	T	Nope, it doesn't have any energy for us.
0:03:40.1	SN	And then ... but ...
0:03:41.1	T	Mm-hm.