

Video Transcript

Teacher/video ID:	Graham Tharp, stella2-05-224 C1-2
Content area:	Water cycle
STeLLA strategy:	Engage students in communicating in scientific ways (STL strategy 8).
Context:	Students have been introduced to STeLLA strategy 8 (engage students in communicating in scientific ways) and have completed one practice round using the CSW sentence starters. In this series of two clips, students practice using the sentence starters as they observe a beaker of boiling water. The second clip occurs later in the conversation following one student's idea about the bubbles.

Video Clip 1

Time Code	Speaker	Discussion
0:00:00.6	T	Marie.
0:00:01.8	SN	I noticed that even though the hot ... if the bubbles are getting faster and going up because it's getting hot,
0:00:10.0	S	but it seems like air pressure is pushing [the bubbles] up when it's just getting it hot to make it like that.
0:00:15.8	T	OK, and what was your sentence starter?
0:00:18.0	S	I noticed that ...
0:00:19.8	T	But you're saying air pressure, right?
0:00:22.1	T	Can you see the air pre— Is air pressure something that you can just walk up here and say that's air pressure right here?
0:00:27.3	SN	No.
0:00:27.7	T	You're giving a ... what?
0:00:32.3	SN	Um, I think that ...?
0:00:35.9	T	OK, so how can you rephrase that?
0:00:44.7	T	You got— What you said was great. That was brilliant. But I just want you to use the right sentence starter.
0:00:51.3	T	It's right there in front of you.
0:00:53.7	S	Maybe?
0:00:55.9	T	OK. Maybe's one of them. So maybe say ... phrase it for us one more time.
0:01:01.8	T	One long, complete explanation.
0:01:07.2	S	Maybe ... Well, it's really that I noticed that it seems like the air pressure's going up,

		but [the water is] just getting hot.
0:01:14.1	S	So it's not really "I think that ..." So ...
0:01:18.4	T	OK, so you want to take your ... your idea back?
0:01:24.5	T	Because you're saying, "I noticed it seems ..."
0:01:28.5	T	When you say, "I noticed it seems like the air pressure's causing it," that's really an explanation, isn't it?
0:01:34.2	S	Yeah.
0:01:36.6	T	Marie? Do you see what I'm saying? Do you see the difference?
0:01:39.9	T	When you say you noticed something, it's just something on the surface like I ... I noticed that the water is bubbling
0:01:45.4	T	like crazy right now.
0:01:46.9	T	But I wouldn't say, "I noticed that the water's bubbling like crazy right now, and it seems that it's because
0:01:51.4	T	the water's getting hotter. See, I don't go that far with it unless it's an explanation.
0:01:56.4	T	So can you phrase it like it would be an explanation. I like what you said.
0:02:04.7	SN	My idea is ...?
0:02:06.0	T	Sure, let's do that.
0:02:10.4	T	Can you say it for me?
0:02:11.2	S	My idea is that, you know, [the water is] getting hot ... you know, it's getting hotter.
0:02:20.1	S	It's like the air pressure is pushing the bubbles up.
0:02:23.5	T	OK, good. Sorry I had to drill you like that, but I wanted to get the language down. Right? Good! Flynn?
0:02:30.2	SN	I see that I don't know—
0:02:32.8	S	Oh no? It's not happening yet ...
0:02:34.2	S	Oh yes it is, like on the glass, there's always this little fog that keeps coming up and disappearing on the side of the glass.
0:02:45.9	T	OK. Talking about—
0:02:50.2	SN	It was the steam?
0:02:50.9	T	The fog?
0:02:52.4	T	Oh, up here? OK. Oh yeah, I see it on the camera.

0:02:59.3	T	See it? Kind of come and go. OK, and he noticed something.
0:03:03.9	T	He's just noticing something. He didn't give us a reason at all.
0:03:06.8	T	Maybe somebody could piggyback on that and give him a reason.
0:03:12.4	T	Marcus?
0:03:13.7	SN	I'm ... I wonder if the water will go down because of density ... because of the water's density of the hea—
0:03:23.6	S	of the heating, which will make it ... the water go down.
0:03:30.3	T	You wonder, so you gave us an "I wonder." You're ... you're giving us a how and why question, aren't you? Good.
0:03:39.4	T	And you're wondering if the water will go down because of the ...
0:03:42.2	S	The density.
0:03:42.9	T	<i>Density</i> . Big word.

Video Clip 2

Time Code	Speaker	Discussion
0:03:49.8	T	Brian.
0:03:50.0	SN	I want to piggyback [on] Jacob's idea, because if you ... the ... the air is not the— I mean the reason the [bubbles] are
0:04:00.8	S	rising to the top is because the water is denser than ... the ... the ... than the air, so that means that the water
0:04:12.8	S	is heavier than the air, and that the air wants to be on top of the heavier object, which is the water, and ...
0:04:22.1	S	and the reasons the person who said they could see the gas is ... is because when the water turns into a gas, some of it
0:04:30.3	S	sticks to the ... to the rim ... I mean the inside of the beaker.
0:04:37.1	T	OK. A lot to take in right there. A lot of thinking going on.