Identifying Student Thinking Lens Strategies (Answer Key)

STL Strategy	Evident in Video Clip	Evidence from Video Clip
Ask questions to elicit student ideas and predictions.	① 2 3 4 5 Not at all Very	• Elicit questions are designed to get a lot of different ideas on the table before exploring a new science concept, but the teacher in this video clip doesn't do this.
2. Ask questions to probe student ideas and predictions.	1 ② 3 4 5 Not at all Very	• 00:05:20: "OK, can you tell me what you did feel?"
3. Ask questions to challenge student thinking.	1 2 3 4 5 Not at all Very	• 00:02:01: "OK. Does that agree with your evidence? Does it support your evidence that there was vibration?" These questions push students to recognize that a vibration was present. You could argue that the teacher gets students to think harder by leading them to connect their observations as evidence that the vibration occurred.
4. Engage students in analyzing and interpreting data and observations.	1 2 3 4 5 Not at all Very	• 00:02:01: "OK. Does that agree with your evidence? Does it support your evidence that there was vibration?" These questions push students to recognize that a vibration was present and specify which sense they used to identify it. Prior to the question, the teacher says, "You are watching right now for evidence of vibration" (00:01:43). You could argue that throughout the clip, students are analyzing and interpreting their observations of various soundmakers to verify that a vibration was present. For example, they interpret the movement of the rice as evidence of vibration.
5. Engage students in constructing explanations and arguments.	1 2 3 4 5 Not at all Very	• 00:04:25–04:51; 00:05:08; 00:05:41: Students explain how they detected the presence of a vibration and indicate the sense(s) they used to identify this evidence.
6. Engage students in using and applying new science ideas in a variety of ways and contexts.	1) 2 3 4 5 Not at all Very	 This strategy wasn't present in the lesson. The teacher could implement this strategy by asking students the following questions: "What about other soundmakers that we haven't seen? Do you think they vibrate too?" "Do all soundmakers vibrate? Let's name a bunch of things that make sounds. Do you think all of these things vibrate? Why or why not?"

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