

Practice Identifying Strategies 4 and 5 in Student Work

Students use a soundmaker (clucker) to investigate loud and soft sounds and differences in their vibrations.

Decide whether each of the following student statements is making an observation, collecting data, analyzing/ interpreting observations or data, or constructing an explanation or argument. Use the STeLLA strategies booklet and the Quick Reference Tools for Strategies 4 and 5 to formulate a rationale for your decisions.

Student Statements	Observations/ Data	Analysis/ Interpretation (Patterns)	Constructing an Explanation	Constructing an Argument
1. "I can feel the clucker cup vibrate when I pull the string."				
2. "When I pull the wet sponge down the string, the string moves and tickles my fingers."				
3. "The harder I pull the string, the more the rice moves inside the cup."				
4. "I can tell the vibrations are bigger when I pull harder on the string, because the cup tickles my hand more."				
5. "I think the vibrations are smaller when I pull softer on the string than when I pull harder."				
6. "I agree, because the rice moves only a little bit when I pull softly on the string, but the rice moves a lot when I pull harder on the string."				
7. "The vibrations are coming from the string and moving into the cup to make it vibrate."				