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| **Lesson 7: Vibrators and Noisemakers Goal:** Students will design, construct and understand devices that use motors to make vibrations and noise  |
| **Objective:** | **Below (1)** | **Approaching (2)** | **Proficient (3)** | **Advanced (4)** |
| A. Create a device that vibrates  | No device | Device does not vibrate | Device vibrates, and student can explain what makes it vibrate | (3) + able to modify device to make it vibrate more or less |
| B. Create a device that makes noise | No device  | Device does not make noise, or makes noise only when operated manually | Device makes noise automatically, and student can explain why  | (3) + able to make it louder or softer and/or higher or lower pitch |
| C. Writing and drawing for communication and reflection | No writing or drawing | Writing and/or drawing are unclear or incomplete, showing minimal understanding | Both writing and drawing showing parts, construction and circuit diagram accurately | (3) + able to relate their device(s) to examples from everyday environment |