

**Rubric for guided-inquiry activities.**

Activity	Excellent (100%)	Acceptable (75%)	Unacceptable (0–50%)
<b>Period 1: Construction of sensor</b>	Student required little or no assistance.	Student needed major assistance or close monitoring.	Student was unable to complete most or all of the construction.
<b>Period 2-3: Power-up and calibration of sensor</b>	Student powered up the sensor correctly with little or no assistance, collected repeatable data, and applied a mathematical linear regression with little or no assistance.	Student needed more than minimal help to complete sensor, collect valid calibration data, and apply a mathematical linear regression.	Student was unable or unwilling to use the sensor in collecting calibration data and did not attempt to find a mathematical model for calibration.
<b>Period 4: Researchable question</b>	Student designed a testable research question—with little or no assistance—that clearly defined dependent and independent variables.	Student designed a testable research question with minor flaws and required assistance in defining dependent and independent variables.	Student did not design a testable research question or designed an untestable research question that did not define any experimental variables.
<b>Final report: Research experiment</b>	Student acquired accurate experimental data—with little or no assistance—that aligns with accepted values and interpreted results to answer their research question.	Student cannot fully carry out experiment or adequately interpret experimental data to answer the research question without assistance.	Student does not carry out the experiment or does not report any experimental results.