### Assessment Form[[1]](#footnote-1): Maker Lab Semi-Structured Inquiry Demo & Poster

*Student names: name(s) Assessor(s): name(s)*

*Experiment: which one? Date: when*

**Needs work Satisfactory Excellent**

**40% 70% 100%**

**1 Demonstration and explanations of methods**

* clearly defines measured variables and explains principles of measurement   
* neatly presents and fully describes all relevant experimental equipment   
* overviews pertinent part(s) of the Arduino Sketch (i.e. the Arduino code),

focusing on how it enables/influences the actual measurement process   

* describes appropriate and insightful quantitative analysis and modeling of

data (e.g. descriptive statistics, curve-fitting, and/or other analysis methods)   

* educational experience for audience: specialist knowledge is not assumed

and concepts are clearly formulated   

**2 Measurement uncertainties**

* identifies and estimates main sources of measurement uncertainty   
* includes uncertainty propagation & uncertainty budget(s) for comparisons   
* explains how choice of parameter values, experimental design, and use of

equipment all aid in minimizing overall uncertainty in the final result   

**3 Results and conclusions**

* poster’s figures help audience to recognize trends and relationships and they

adhere to conventions (e.g. legible & informative captions, axis labels, etc)   

* final result is clear & justified and includes a total measurement uncertainty   

**4 Penalties (*subtracted from overall grade*) penalty:**

* negligently cites relevant/authoritative sources or some borrowed material?

(note that plagiarism will be handled differently)

* late submission?

Strong points:



Possible improvements:



Remaining Remarks or Questions:



Grade: % (average of the 10 categories minus any penalties)

1. For the grading rubric that inspired categories in this assessment form, please see:

   C.F.J. Pols et al <http://doi.org/10.5281/zenodo.3778087> [↑](#footnote-ref-1)