### Assessment Form[[1]](#footnote-1): Maker Lab Open-Inquiry Project Final Presentation

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

*Presentation duration: how long? Date: when*

**Needs work Satisfactory Excellent**

**40% 70% 100%**

**1 Structure and communication**

* engaging and well-structured, with clear slides, articulation, and language   
* well-paced, time (10-14 minutes speaking time) is appropriately used   
* educational experience for audience: specialist knowledge is not assumed

and concepts are clearly formulated   

* + 1. **Goal and relevant background**
* clearly (but briefly) describes science of studied phenomena/relationship   
* clearly defines measured variables and explains principles of measurement   
* clearly describes research question & how the measurements can answer it   

**3 Methods and results**

* discusses pilot tests & experiments, calibrations, and lessons learned   

* clearly describes experimental methods,

including experimental design, equipment, and procedures;

making good use of figures in slides and/or demonstration materials   

* overviews pertinent part(s) of the Arduino Sketch (i.e. the Arduino code),

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

* parameter values and independent variables (and their ranges) are chosen -

and there are sufficient measurement repetitions (and averaging thereof) - such that:

(expected) effect size to measurement uncertainty ratio is maximized   

* provided figures help audience to recognize trends and relationships   
* appropriate and insightful quantitative analysis & modeling of data   
* identifies and estimates main sources of measurement uncertainty   
* includes uncertainty propagation & uncertainty budget(s) for comparisons   

**4 Conclusions**

* quantitatively explains relevance of uncertainties for conclusions   
* shows full extent of knowledge gained by experiments and briefly explains

the importance of the results   

**5 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 of project and presentation:



Possible improvements:



Remaining Remarks or Questions:



Grade: % (average of the 16 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)