*Measurement Lab # 1*

**LAB GROUP # 1**: Measure the height of the ceiling of the hallway outside this classroom

*UNIT*: meters

*CONSTRAINT*: No meter stick or any other length measuring device (tape etc) allowed outside the classroom!!

**LAB GROUP # 2**: Measure the time it takes for one of you to walk from one end of the room to the other, heel to toe (with your eyes closed for extra challenge…. if you wish)

*UNIT*: seconds

*CONSTRAINT*: You may not use a timing device of any kind (no watches or clocks) when the walk begins!!

**LAB GROUP # 3**: Measure the mass of the object provided to you

*UNITS*: grams

*CONSTRAINT*: You may not place the object on a weighing scale!!

**Lab write-up (individual) FORMAT**

LAB PURPOSE/TITLE: State what you were asked to ***do***…..

PROCEDURE: Detail your strategy for circumventing the constraint – what you actually ***did***…..

MEASUREMENT: What measurements were taken… use **L** for length, **t** for time and **m** for mass. DO NOT FORGET UNITS – NAKED NUMBERS DON’T MEAN ANYTHING!!!

ANALYSIS & SOURCES OF ERROR: How good was your method of measuring? Measure using a more conventional method (i.e one without constraints) to compare against your method. Which is superior? Why?