**Carleton University**

**Laboratory Report**

**Course #:** PHYS1003-A **Experiment #: 01**

**Experiment Title**

**Dorian Wang**

**101009020**

**Date Performed:** Jan 01, 2001

**Date Submitted:** Jan 01, 2001

**Lab Period:** A5

**Partner:** Xintong Zhao

**Station #:** 14

**TA:** Vincent Morin

Purpose:

This experiment was performed in order to calculate the spring constant (k) of a spring using two methods.

Theory:

From Hooke’s law, an ideal spring has a linear relationship between force applied and the change in length of the spring.

(F = kΔx)

By adding mass to the spring

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| (Δ𝑀)𝑔=𝑘𝑠Δ𝑥 |

Apparatus:

-Spring

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