**Experiment Mass-Spring Oscillator - Data Sheet**

**Use the following space to record spring constants complete with uncertainty (in standard form).**

**Spring 1: k1 ± σ1 = \_\_\_\_\_\_34.04±.06207\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Spring 2: k2 ± σ2 = \_\_\_\_\_\_\_34.78±2.006\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Springs 1 and 2 in Series: ks ± σs = \_\_\_\_\_\_17.59±.07221\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Use the following space to record times and number of full oscillations from the Part 2 measurements.**

**Spring 1: N1 = \_\_\_\_\_\_\_\_\_15\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (# of oscillations)**

**t1 = N1T1 = \_\_\_\_\_\_\_\_\_\_\_10\_\_\_\_\_\_\_\_ (N periods)**

**T1 = \_\_\_\_\_\_\_\_\_.667\_\_\_\_\_\_\_\_\_\_ (Period of osc.)**

**Spring 2: N2 = \_\_\_\_\_\_\_14\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (# of oscillations)**

**t2 = N2T2 = \_\_\_\_\_\_\_10\_\_\_\_\_\_\_\_\_\_\_\_ (N periods)**

**T2 = \_\_\_\_\_\_\_\_\_\_.714\_\_\_\_\_\_\_\_\_ (Period of osc.)**

**Springs 1 and 2 in Series: Ns = \_\_\_\_\_\_\_\_\_\_\_10\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (# of oscillations)**

**ts = NsTs = \_\_\_\_\_\_\_10\_\_\_\_\_\_\_\_\_\_\_\_ (N periods)**

**Ts = \_\_\_\_\_\_\_\_\_1\_\_\_\_\_\_\_\_\_\_ (Period of osc.)**