

Raw Data Sheet

Student Name: _____

Team members:

1.- _____ 2.- _____

3.- _____ 4.- _____

Instructor: _____

Ballistic Pendulum

Pendulum plus Steel ball masses, $m_p + m_b$ _____ (g)

Pendulum mass, m_p _____ (g)

Center of mass length, r_{cm} _____ (cm)

Table 1.- θ (deg) for various trials

Range	Trial 1	Trial 2	Trial 3
Short			
Medium			
Large			

Angular Collision

Outer hoop radius, $r_{h,outer}$ _____ (cm)

Inner hoop radius, $r_{h,inner}$ _____ (cm)

Hoop mass, m_h _____ (g)

Disk radius, r_d _____ (cm)

Disk mass, m_d _____ (g)

Table 2.- Rotational Frequency, f (RPM), for various trials

	Trial 1	Trial 2	Trial 3
$f_{initial}$			
f_{final}			

Note: Remember to divide f by ten – refer to page 46 in the lab manual.