Name: _____ **Date:** _____

Bouncing Balls Worksheet

Ball Types:

Ball 1: _____

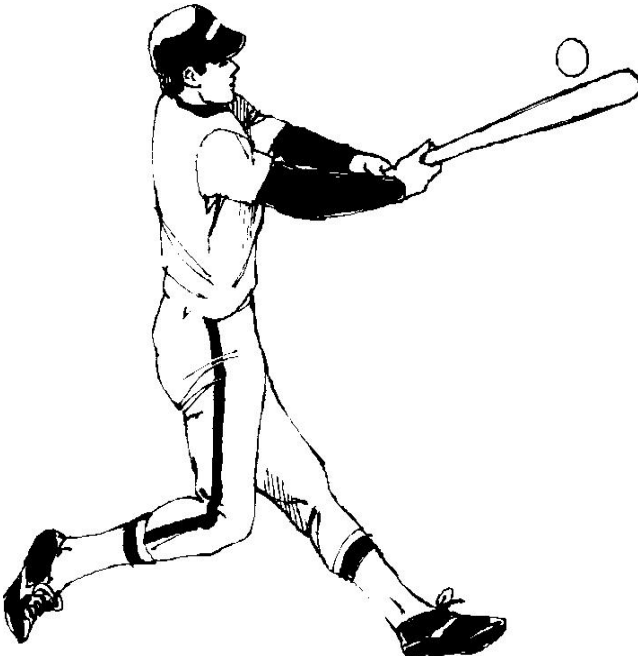Ball 2: _____

Ball 3: _____

Surface Types:

Surface 1: _____

Surface 2: _____

Surface 3: _____

Record your data and calculations in the table below.

Ball	Surface	Bounce Height (m)	Elastic? Or Inelastic?	Mass (m)	Velocity (m/s)	Momentum (kg x m)/s
1	1					
2	1					
3	1					
1	2					
2	2					
3	2					
1	3					
2	3					
3	3					

Equations:

Falling Object Velocity = $V = \sqrt{2gh}$ **Momentum =** mass x velocity

where g is gravity (9.81 m/s^2) and h is height (m)