

Lab format

Note to the teacher. This lab uses observation and estimation, if you have a Pasco motion sensor you may choose to use that for your readings. Divide the class into groups (suggestion-four per group).Have each group perform the lab and then share and average the findings for more accurate result

Degree of Elasticity

Purpose: To estimate the degree of elasticity of various balls and to rate and compare these in terms of their ability to bounce off a smooth solid surface.

Apparatus: solid flat surface, various balls, ruler or linear measuring device

Procedure: Be sure your surface area is clean and free of any impeding objects. Have one person in the group hold the meter stick vertically on the surface. Carefully drop the first sample (ball) from the top of the meter stick and estimate how high it moves on its **first** bounce. Repeat this at least three times with the same ball and determine the mean or average distance and record your finding.

Repeat this same procedure using each of the samples (balls). Record the results.

After your group has completed all the estimations and group averaging it will be necessary to share your results with the other groups.

Observations or Results:

Ball	Group1 Average	Group2 Average	Group3 Average	Group4 Average	Group5 Average	Group6 Average	Overall Average
Golf							
Soccer							
Baseball							
Tennis							

Conclusions: