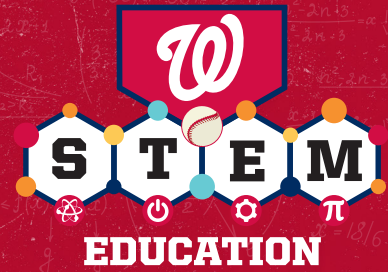


WASHINGTON NATIONALS BASEBALL SCIENCE FUN SHEETS



Elasticity

INTRODUCTION

What determines how high a ball bounces? This lesson explores the concept of elasticity and materials used to make balls for different sports.

OBJECTIVES

1. Compare the elasticity of different balls when dropped from the same height
2. Collect and graph a data set of measurements and calculate averages of the three trials
3. Discuss and hypothesize which factors (i.e., size, weight, design, construction materials) affects a ball's elasticity

KEY CONCEPTS

- Elasticity is the ability of an object or material to resume its normal shape after being stretched or compressed measurements of a variety of balls from the same height onto the same surface
- The balls are dropped so gravity will be the only force affecting the compression

MATERIALS

- Baseball
- Softball
- Tennis Ball
- Tape Measure (10')
- Notebook

KEY WORDS

- Elasticity
- Bounce
- Variables
- Force
- Gravity

FOCUS STANDARDS

Relates to Vertical Measurement:

CCSS.MATH.CONTENT.2.MD.A.4

Relates to Averaging:

CCSS.MATH.CONTENT.5.NBT.B.7

