VOLUME
1

STEM sports®

science • technology
engineering • math • sports

Multi - Sport Ball Edition

Module 1.0

Softballs vs. Baseballs

GRADES 6th – 8th

What Do You Need?

Supplies Provided

Worksheets, Softballs, Baseball, Tape Measures, Weight Scale and Digital Stopwatches

Materials Needed

Pencils and Calculators

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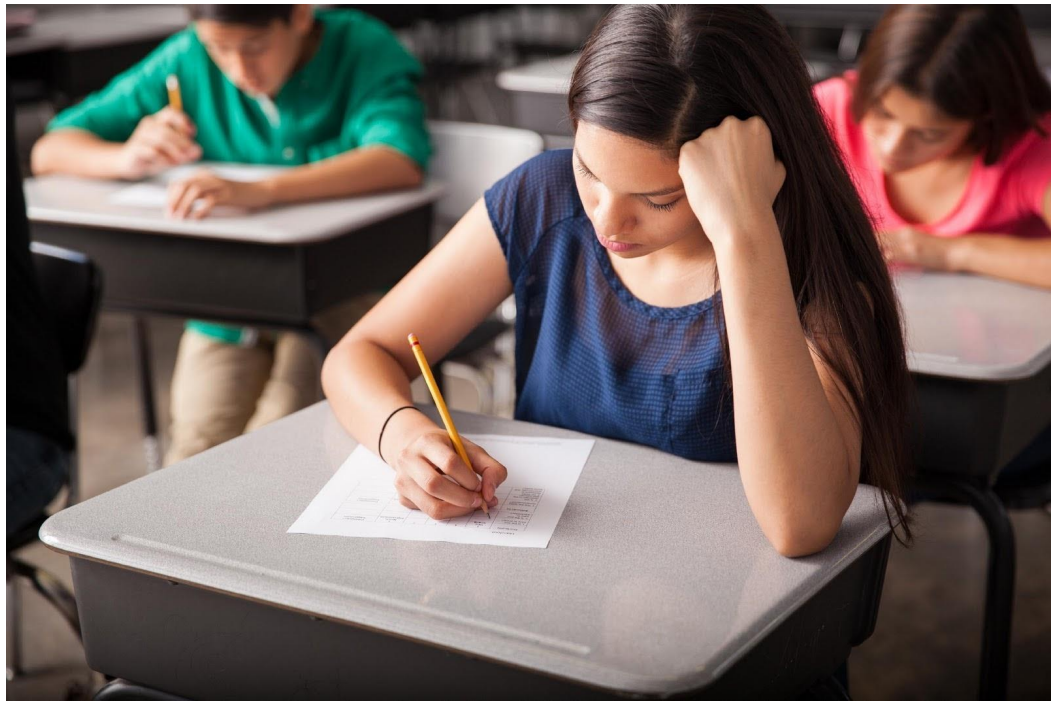

Test Your Knowledge

Have your students take this lesson's assessment prior to engaging by visiting: https://stemsports.com/assessments/. If you have limited digital capability, please email Info@STEMSports.com to access the Assessment & Key.

Fun Fact

The first softball wasn't even a ball. During a Harvard/Yale football game in Chicago, a Yale fan had thrown a rolled up boxing glove at a Harvard supporter, who hit it back with a stick. That gave George Hancock the idea to develop a ball and a bat.

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Engage

Do you think a softball with travel farther, less further, or as far as a baseball?

Explore

Test your prediction. Use the worksheet as a guide.

Explain

Learn how to find Acceleration and how acceleration and velocity different.

Elaborate

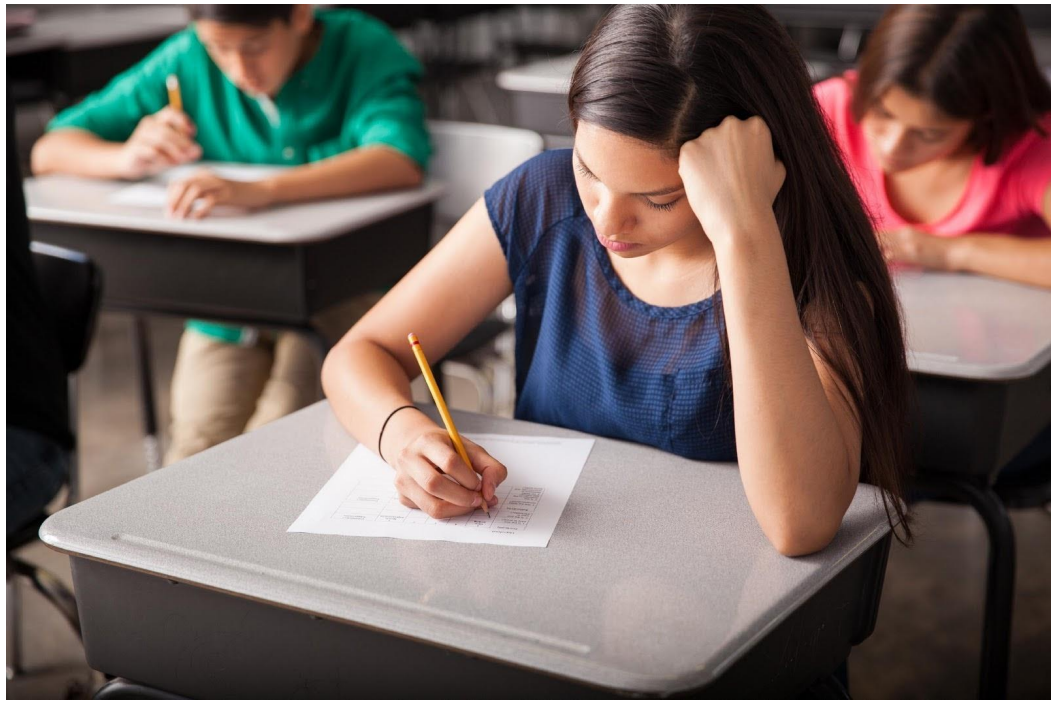
Use the worksheet as experimental guide and apply Newton's Second Law to find the force acting on the ball.

Evaluate

Based on your data, was your earlier prediction accurate? Use the worksheet as a guide.

What Did You Learn?

Have your students retake this lesson's assessment to effectively evaluate their comprehension by visiting: https://stemsports.com/assessments/. If you have limited digital capability, please email Info@STEMSports.com to access the Assessment & Key.



Extend

Challenge Yourself!

Use a force diagram throwing each ball underhand and overhand, labeling all forces applied to each ball.

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What is your Dream Job?

STEM Jobs in Sports

- Softball Scout
- Sports Physicist
- Softball Umpire
- Equipment Manager
- Product Development Scientist

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