

STEM Sports

science • technology engineering • math • sports

SOFTBALL

Module 3.0 Forces in Softball

GRADES 6th - 8th



What Do You Need?

Supplies Provided

Worksheets, Tape Measures and Softballs

Materials Needed Pencils and Softball Bat







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.





How does hitting a softball work? How can you increase the speed and distance of the ball?



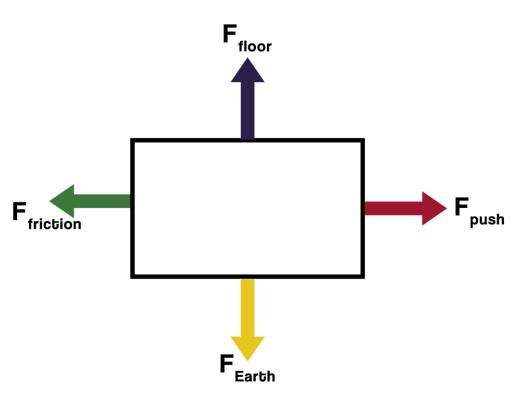


Conduct an experiment measuring the total distance with a full swing. Use the worksheet as a guide.





Explain



The force acting on the ball is Gravity and air resistance. When the ball is hit, there is a hitting force as well.





Conduct an experiment measuring the total distance the ball travels when hit with a full swing vs. a bunt swing. Use worksheet as a guide.







Using the <u>worksheet</u>, answer questions from your experiment.

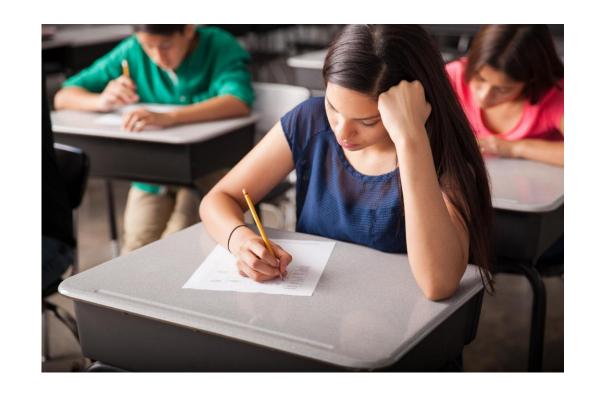




What Did You Learn?

Have your students retake this lesson's assessment to effectively evaluate their comprehension by visiting:

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Challenge Yourself!

Make and test a hypothesis on how a lighter versus heavier ball would change the forces acting on the ball.





What is your Dream Job?

STEM Jobs in Sports

- Assistant Softball Coach
- Youth Sports Director
- Sports Physicist
- High School: Softball Sports Theory Teacher
- Softball: League Director



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