

STEM
sports[®]

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BASKETBALL

Module 2.1

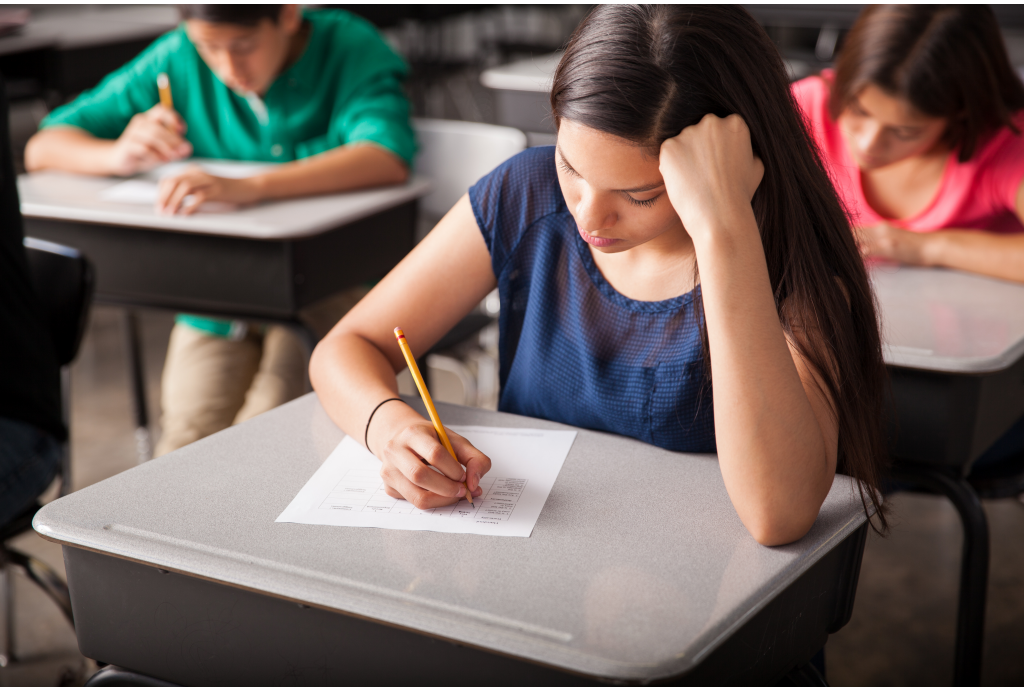
Science of Basketball

GRADES 6th – 8th

What Do You Need?

Supplies Provided
[Worksheets](#), Tape
Measures, Masking
Tape and Basketballs

Materials Needed
Pencils



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.

Engage

Dribble the basketball. How does it relate to science?



Explore

Conduct an experiment using the [worksheet](#) to better understand the patterns in the behavior of a basketball.

Explain

Learn about gravity and its affect on the ball. How does Newton's 3rd Law apply? Use the [worksheet](#).

Elaborate

What did you learn from the experiment? Review your data on the [worksheet](#).

Evaluate

How does dropping the ball and dribbling the ball change how Newton's 3rd Law is demonstrated?



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!

Basketball can be played on both a hard or soft surface. What other *independent variables* affect the ball? Complete another experiment to find out.



What is your Dream Job?

STEM Jobs in Sports

- Athletic Material Scientist
- Equipment Manufacturer
- Sports Physiologist
- Athletic Quality Control Coordinator
- Facility Safety Engineer

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