



STEM
sports[®]

science • technology
engineering • math • sports

BASKETBALL

Module 2.1

Forces in Basketball

GRADES 3rd – 5th

MODULE
2.1

GRADES
3-5

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 effect on the ball.

Elaborate

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

Evaluate

What is the difference between just dropping the ball and pushing/dribbling it?



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

- Statistician
- Head Coach
- Director of Basketball Operations
- Equipment Manufacturer
- Engineer

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