



**STEM**  
*sports*<sup>®</sup>

science • technology  
engineering • math • sports

## **BASKETBALL**

Module 4.1

Motions in Basketballs

GRADES 3<sup>rd</sup> – 5<sup>th</sup>

MODULE  
**4.1**

GRADES  
**3-5**

## What Do You Need?

### Supplies Provided

[Worksheets](#), Basketballs,  
Tape Measures, Masking  
Tape and Digital Timers

### Materials Needed

Pencils and Calculators





## 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](mailto:Info@STEMSports.com) to access the Assessment & Key.

# Engage

Can you run faster than a  
basketball being passed?



# Explore

Test your prediction with a runner, passers, and timer.  
Use the [worksheet](#).

# Explain

Learn how to measure speed.

## Elaborate

Try to calculate your speed from the groups earlier experiment.  
Use the [worksheet](#).



# Evaluate

Based on your groups  
experimental data,  
write a claim





## 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](mailto:Info@STEMSports.com) to access the Assessment & Key.



**Extend**

## **Challenge Yourself!**

Complete the experiment using a chest pass, overhead pass, or bounce pass.







# What is your Dream Job?

## STEM Jobs in Sports

- Safety Inspector
- Scorekeeper
- Personal Trainer
- Sports Doctor
- Strength and Conditioning Coach

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