



STEM
sports[®]

science • technology
engineering • math • sports

BASKETBALL

Module 3.1

Understanding Basketball

GRADES 3rd – 5th

MODULE
3.1

GRADES
3-5

What Do You Need?

Supplies Provided

[Worksheets](#), Indoor and Outdoor Basketballs, Indoor Ball Cut Samples, Outdoor Ball Cut Samples and Calipers

Materials Needed

Pencils and other Balls (tennis, golf, and baseball)



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

What is the difference
between a flat basketball
and ball full of air?

Explore

Make observations by looking at the inside and outside of the ball. Use the [worksheet](#).



Explain

Learn about the three states of matter in relation to a basketball.

Elaborate

What similarities and differences are there of a basketball and other sport balls? Use the [worksheet](#).

Evaluate

Apply your observations and explain how the states of matter make each ball function differently.





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!

Dissect a tennis ball, golf ball, and baseball and write a comparison.



What is your Dream Job?

STEM Jobs in Sports

- Materials Engineer
- Equipment Manager
- Ball Engineer
- Market Researcher
- Product Development Scientist

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