



STEM
sports®

science • technology
engineering • math • sports

FOOTBALL

Module 8.1

Properties of a Football and Foam Football

GRADES 3rd – 5th

What Do You Need?

Supplies Provided

[Worksheets](#), Youth
Footballs, Foam Footballs,
Scale and Tape Measures

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

How do the
footballs feel and
behave differently?



Explore



It's time to play! Throw, catch, and record your abilities on the [worksheet](#).

Explain

Learn about how properties affect the behavior of a football, such as shape, size, and weight.

Elaborate

Diagram and test how the shape of a football affects its bounce and overall behavior.
Use the [worksheet](#).



Evaluate

Based on your findings, explain how and why each football behaves differently when bounced. Use the [worksheet](#).



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.





Challenge Yourself!

Explain how equal distribution works, and how and why the unique shape of a football behaves the way it does.



What is your Dream Job?

STEM Jobs in Sports

- Equipment Manager
- Materials Engineer
- Head Coach
- Team Merchandise Designer
- Sports Equipment Manufacturer



To access Worksheet Keys, please visit
www.STEMSports.com/digitaltools

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