



# STEM *sports*<sup>®</sup>

science • technology  
engineering • math • sports

## MULTI-SPORT

### Module 3.1

## Properties of a Football and Foam Football

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

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

# Engage

How do the footballs  
feel and behave  
differently?





# Explore



It's time to play! Throw, catching 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](mailto:Info@STEMSports.com) to access the Assessment & Key.





## **Challenge Yourself!**

Explain how equal distribution and 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](http://www.STEMSports.com/digitaltools)

Want to continue the education?  
Visit us at <https://stemsports.com/>  
OR  
Tag us @stemsportsusa



STEMSportsUSA



@STEMSportsUSA



STEMSportsUSA



STEMSportsUSA/pins



@STEMSportsUSA



STEM Sports

