



STEM
sports[®]

science • technology
engineering • math • sports

SOCCER

Module 4.1

Synthetic vs Natural Materials

GRADES 6th – 8th



MODULE
4.1

GRADES
6-8

What Do You Need?

Supplies Provided

[Worksheets](#), Soccer Balls
and Futsal Balls

Materials Needed

Pencils, Highlighters and
Copies of Articles



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 is the soccer ball we play with today like ancient soccer balls? How do they differ?

Explore

Use the [worksheet](#) to record observations of a soccer ball and futsal ball.



Explain

Learn the difference between synthetic and natural materials, and how each impacts a soccer ball, and our society and planet.

Elaborate

Read an [article](#) about the game of soccer to better understand its origin.

Evaluate

Use the [worksheet](#) to answer questions about synthetic vs. natural materials.



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!

Select materials that make up a soccer ball and futsal ball and conduct research on its development.



What is your Dream Job?

STEM Jobs in Sports

- Equipment Designer
- Athletic Quality Control Coordinator
- Materials Chemist
- Event/Gameday Coordinator
- Sports Equipment Manufacturer



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

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