

STEM
sports[®]

science • technology
engineering • math • sports

VOLLEYBALL

Module 3.1

Volleyball Properties

GRADES 6th – 8th





MODULE
3.1



GRADES
6-8

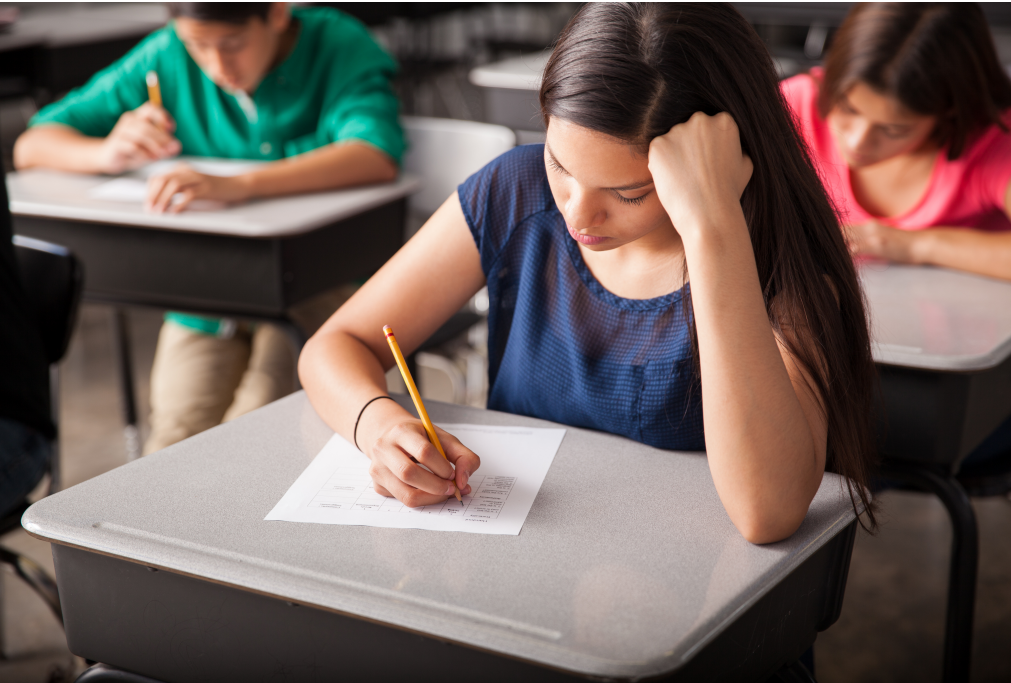
What Do You Need?

Supplies Provided

[Worksheets](#), First Touch Volleyballs, Light Touch Volleyballs, Recreation Volleyballs, Balloons and Scale

Materials Needed

Calculators and 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.

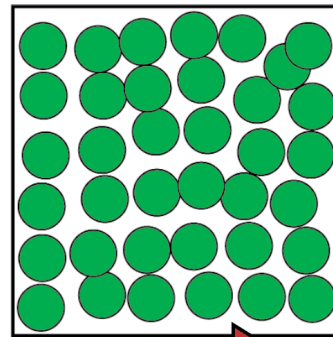
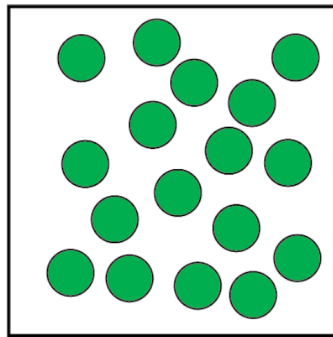
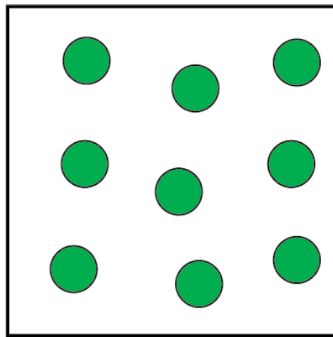
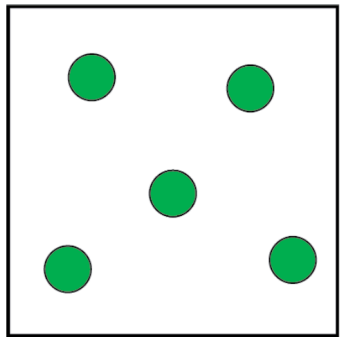
Engage

How much does a volleyball
impact your performance?

Explore

Using the [worksheet](#),
conduct a trial to observe
the differences in
volleyballs and a balloon.

Explain



LOW

HIGH

Learn the relationship between density and molecules, and how each affects the behavior of a volleyball.

Elaborate

Perform a test to find how density affects the performance of each ball.
Use the [worksheet](#).

Evaluate

Based on your findings, use the [worksheet](#) to make 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 to access the Assessment & Key.



Extend



Challenge Yourself!

Inflate the balls to varying pressures and determine if the density changes.



What is your Dream Job?

STEM Jobs in Sports

- Materials Engineer
- Synthetics Chemist
- Athletic Quality Control Coordinator
- Sports Metric Analyst
- Sports Equipment Manufacturer



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

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