VOLUME



engineering • math • sports

### VOLLEYBALL

Module 3.1 Volleyball Properties

GRADES 3rd – 5th



#### What Do You Need?

## **Supplies Provided**

Worksheets, Light Touch, First Touch Volleyballs, Recreation Volleyballs, Balloons, Tape Measures and Scale

# **Materials Needed**

Pencils





# Test Your Knowledge

Have your students take this lesson's assessment prior to engaging by visiting: <u>https://stemsports.com/assessments/</u>. If you have limited digital capability, please email Info@STEMSports.com to access the Assessment & Key.





### Observe a volleyball and balloon. Do you think they behave the same or differently?





Using the <u>worksheet</u>, conduct a trial to determine the performance of a volleyball and balloon.







Learn the importance of observation. What are some examples of good observations a scientist uses?





# Use the <u>worksheet</u> to identify differences through observation.







How do properties make the balls behave differently? Use experimental evidence to support your claim.





#### What Did You Learn?

Have your students retake this lesson's assessment to effectively evaluate their comprehension by visiting: <u>https://stemsports.com/assessments/</u>. If you have limited digital capability, please email Info@STEMSports.com to access the Assessment & Key.

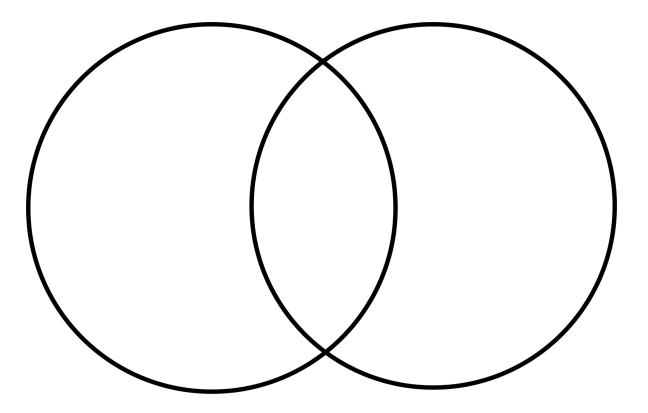






### **Challenge Yourself!**

Use a *Venn diagram* to compare properties of each ball.







# What is your Dream Job?

### STEM Jobs in Sports

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





# To access Worksheet Keys, please visit <u>www.STEMSports.com/digitaltools</u>



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