VOLUME



science • technology engineering • math • sports

### SOCCER

## Module 8.1 Probability and Penalty Kicks

GRADES 6<sup>th</sup> – 8<sup>th</sup>



#### What Do You Need?

## **Supplies Provided**

Worksheets and Soccer Balls

## Materials Needed Pencils and Calculators







## **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.





What types of measurement can you use to evaluate if you are a good soccer player?









## Collect data: Time to test your skills. Use the worksheet.





### Discuss the use of *probability* in soccer. How can you use *probability* in the game to predict an outcome?





## Predict and test your game with penalty shots using the <u>worksheet</u>.







### What if you took 100, 200, or 1,000 shots? Use the <u>worksheet</u>.





### 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!**

# To better understand your skills, graph your data using an input/output function.





## What is your Dream Job?

### **STEM Jobs in Sports**

- Referee
- Statistician
- Soccer Metrics Analyst
- Internet Sports Producer
- Sports Information Director





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



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