

STEM
sports®

science • technology
engineering • math • sports

STEM Tennis

Module 5.0

May the Force Be With You!

GRADES 6th – 8th



Module 5.0

GRADES
6-8

What Do You Need?

Supplies Provided

[Worksheets](#), Tennis
Rackets, Tennis Balls,
and Radar Gun

Materials Needed

Pencils and Smartphone
or Tablet



Fun Fact

The average age of ball boys and girls serving in Wimbledon is 15 years old. Approximately 250 youth are selected to serve in the tournament each year.



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

Why are some hits in tennis faster than others?



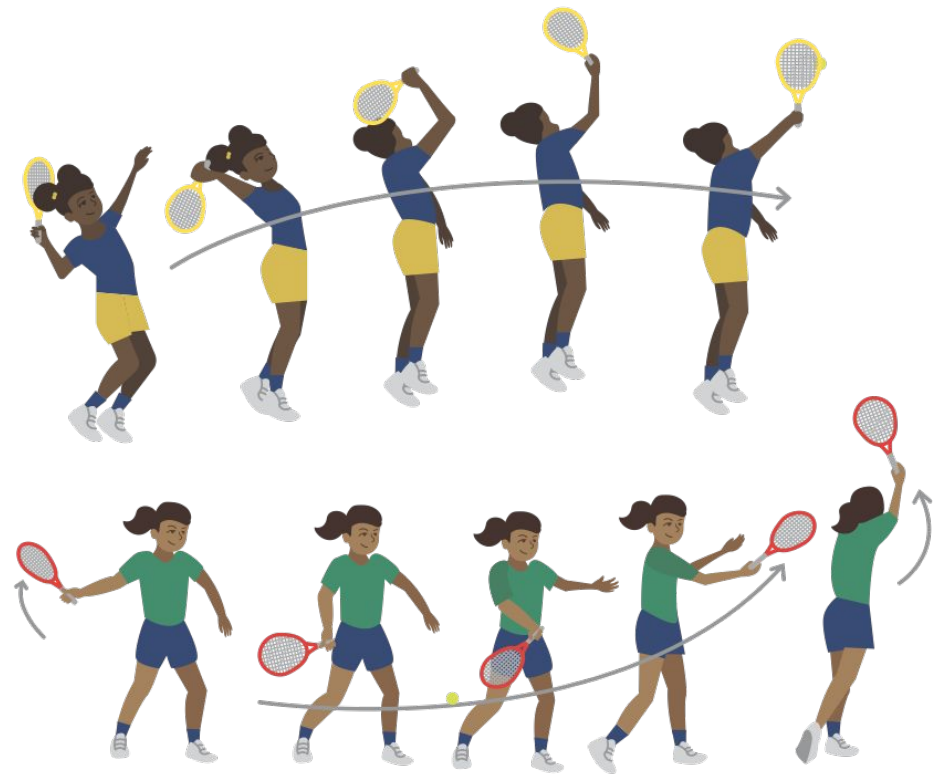
Explore



Conduct an informal experiment to better understand the fastest hit type: Overhand serve, Forehand hit, and Backhand hit.

Explain

Learn about key vocabulary terms of Acceleration and Force and how each applies to the game of tennis.



Elaborate

Using the [worksheet](#) as a guide, work in groups to hit the ball and calculate the Force.

Evaluate

How does change in force
affect a change in motion?



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!

Design a controlled experiment by finding the force from throwing the tennis ball and comparing it to serving it.



What is your Dream Job?

STEM Jobs in Sports

- Head Tennis and Pickleball Professional
- Director of Junior Tennis
- USTA: Managing Director, Digital Strategy
- Tennis Rackets: Graphic Design
- Summer Camp Tennis Counselor

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



STEMSportsUSA



@STEMSportsUSA



STEMSportsUSA



STEMSportsUSA/pins



@STEMSportsUSA



STEM Sports



@STEMSportsUSA