

STEM
sports[®]

science • technology
engineering • math • sports

BASEBALL

Module 4.0

The Art of Pitching
GRADES 6th – 8th



MODULE

4.0

GRADES
6-8

What Do You Need?

Supplies Provided
Worksheets, Baseballs
and Radar Gun

Materials Needed
Pencils and
Smartphone or
Tablet



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.

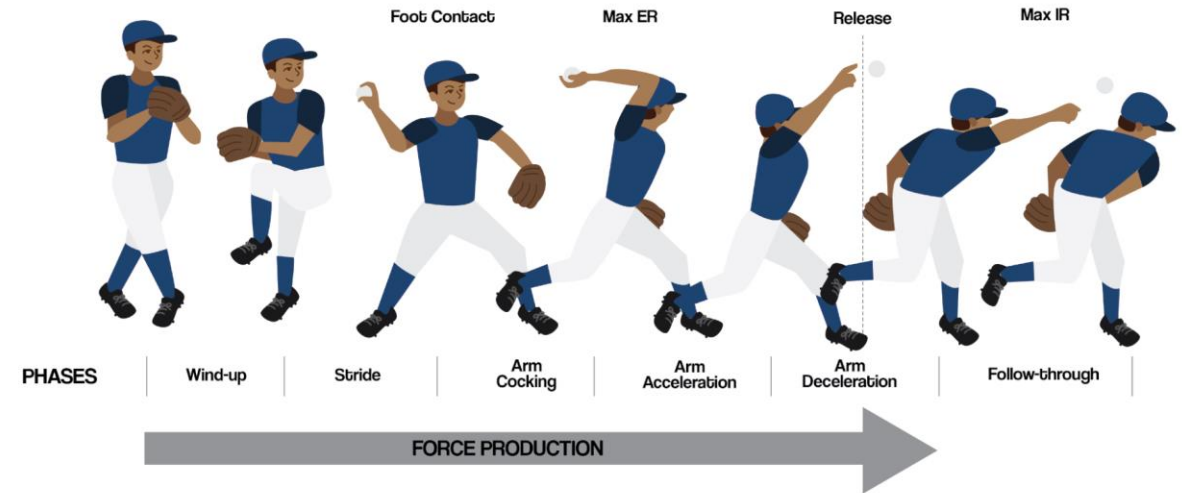
Engage

Why are some throws
faster than others?

Explore

Test your skills!
Throw/pitch from the
wind-up and stretch
positions. Use the
[worksheet](#) as a guide.

Wind-up



Stretch



Explain

Learn about Acceleration and Force and how each plays a significant role in pitching.

Elaborate



Using the [worksheet](#), calculate the amount of force you put on the ball by using Newton's Second Law: $F = MA$

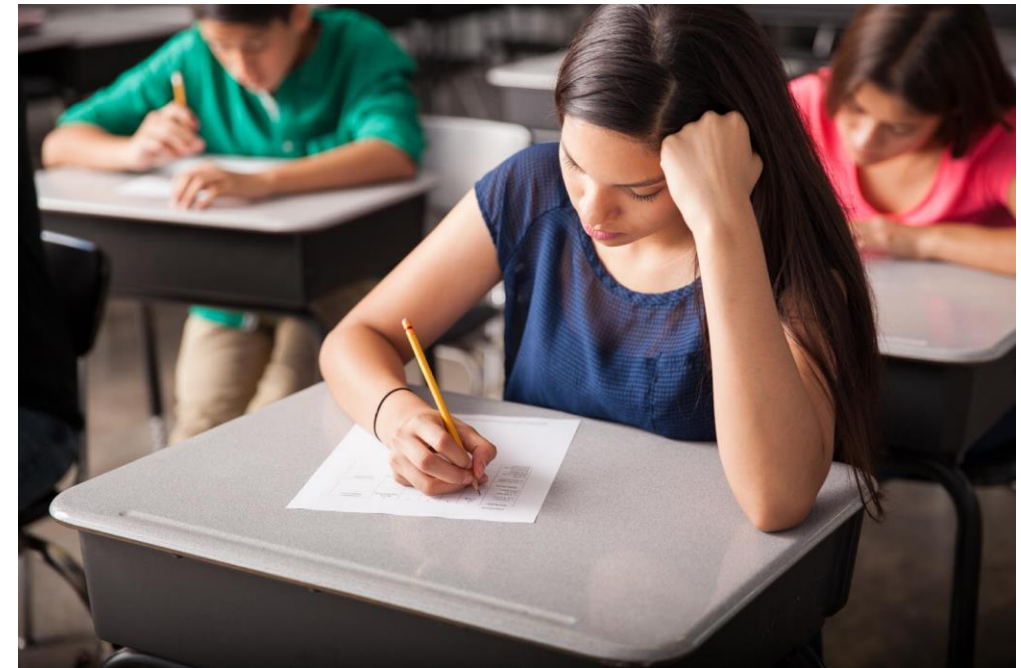
Evaluate

Based on your data, write a claim that explains how a change in force will affect a change in motion. Use the [worksheet](#) as a guide.



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 your own controlled experiment using a baseball bat as the independent variable.



What is your Dream Job?

STEM Jobs in Sports

- Sports Videographer
- Sports Metric Analyst
- Baseball: Information Director
- Television Sports Producer
- Sports: Audio/Video (AV) Technician

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