

**STEM**  
*sports*<sup>®</sup>

science • technology  
engineering • math • sports

## **BASEBALL**

Module 4.0

The Art of Pitching

GRADES 3<sup>rd</sup> – 5<sup>th</sup>

MODULE

4.0

GRADES  
3-5

## 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](mailto:Info@STEMSports.com) to access the Assessment & Key.

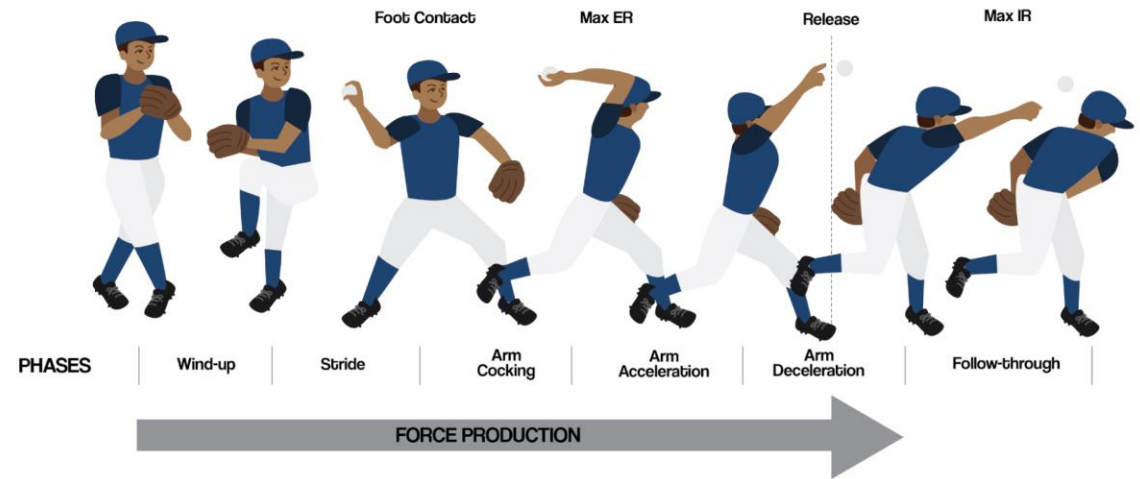
**Engage**

Why are some throws  
faster than others?

# Explore

Identify key similarities and differences of throwing techniques to generate speed. Use the [worksheet](#) as a guide.

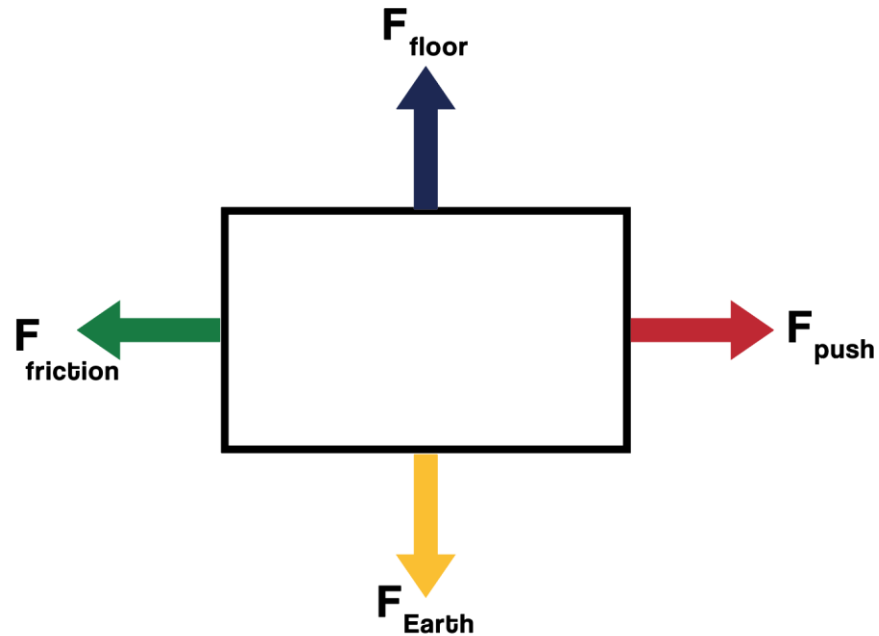
## Wind-up



## Stretch



# Explain



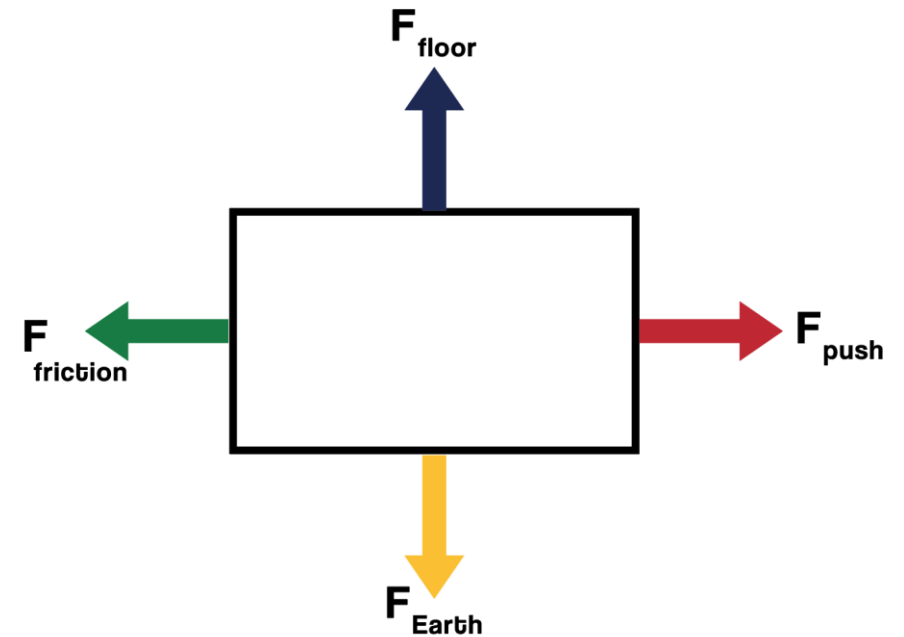
Learn about Balanced and Unbalanced Forces and how each plays a role in pitching.

## Elaborate

Complete an experiment that tests your skills as a pitcher using both the wind-up and stretch positions.

# Evaluate

Complete a force diagram based your pitches from the wind-up and stretch. 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](mailto:Info@STEMSports.com) to access the Assessment & Key.



**Extend**

## **Challenge Yourself!**

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



# What is your Dream Job?

## STEM Jobs in Sports

- Videographer
- Sports Statistical Analyst
- Performance Coach
- Baseball Engineer
- Computer/Application Coder (App)

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education? Visit us at  
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