

STEM Sports

science • technology engineering • math • sports

BASEBALL

Module 5.0

Engineering a
Pitching Machine
GRADES 3rd – 5th



What Do You

Supplies Provided Need?

Worksheets,
Baseballs and Tape
Measures

Materials Needed

Pencils and Graph Paper Prototype Materials: cardboard PVC piping, string, paper towel rolls, glue, or tape, etc.







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.





How can you improve your swing and hitting skills?





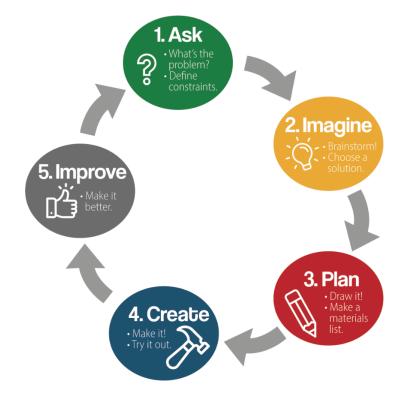
What are some challenges hitters face to improve their hitting skills?





Learn about the importance of Criteria and Constraint to effectively solve problems.

Engineering Design Process







Using the worksheet as a guide, create a device to ensure placement, speed, and movement of pitches.







Was your design successful or not? Present to your classmates with evidence to support its success.





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.







Challenge Yourself!

Research existing pitching machines, and plan and build your designed prototype using their design.





What is your Dream Job?

STEM Jobs in Sports

- Assistant Baseball Coach
- Stadium: Operations Manager
- Youth Sports Director
- Sports Manufacturer
- Product Development Scientist



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

















STEMSportsUSA/pins @STEMSportsUSA

