



STEM
sports[®]

science • technology
engineering • math • sports

FOOTBALL

Module 3.1

The Advancement of In-Game
Communication

GRADES 3rd – 5th



MODULE
3.1

GRADES
3-5

What Do You Need?

Supplies Provided

[Worksheets](#), Digital
Timers and Walkie-Talkies

Materials Needed

Pencils and Internet
Access



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

How important is communication
in the game of football?

Explore

With a partner, add technology into the mix to compare and contrast. Use the [worksheet](#).



Explain

Learn about the most effective ways coaches and players communicate. Use the *Engineering Design Process* to identify criteria and constraints in their communication.



Elaborate

Using the [worksheet](#), brainstorm and design a better communication device.

Evaluate

Give a brief presentation about your designs. What problems or challenges did you solve?



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!

Research online resources of current game technology and write a report on devices that currently exist.



What is your Dream Job?

STEM Jobs in Sports

- Director of Broadcast Technology
- Telecommunications Engineer
- Stadium/Arena PA (Public Address) Announcer
- Offensive Coordinator
- Sports Radio Producer



To access Worksheet Keys, please visit www.STEMSports.com/digitaltools

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