

science • technology engineering • math • sports

**MULTI-SPORT** 

Module 7.1

The Evolution of the Football Helmet

GRADES 6<sup>th</sup> – 8<sup>th</sup>



#### What Do You Need?

### **Supplies Provided**

Worksheets

### **Materials Needed**

Copies of Article, Pencils and Diagrams of the Brain, Spinal Cord, and Nerves throughout the Body Optional: Prototyping Materials







### **Test Your Knowledge**

Have your students take this lesson's assessment prior to engaging by visiting: <a href="https://stemsports.com/assessments/">https://stemsports.com/assessments/</a>. If you have limited digital capability, please email Info@STEMSports.com to access the Assessment & Key.





How has the football helmet changed since the first leather helmets used in the game?







Read the <u>article</u> and discuss the importance of preventing injuries to the head.





Learn more about the nervous system and how impact to the head can kill <u>neuron cells</u>.





Make observations of the helmets on the worksheet.







Diagram parts of the nervous system. Does today's football helmet provide adequate protection from a head injury?





#### 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!**

Create a testable model using the Engineering Design Process to effectively protect the brain from impact.





## What is your Dream Job?

#### STEM Jobs in Sports

- Sports Equipment Manufacturer
- 3D Printing Engineer
- Team Physician
- Exercise Physiologist
- Sports Commissioner





# To access Worksheet Keys, please visit <a href="https://www.STEMSports.com/digitaltools">www.STEMSports.com/digitaltools</a>



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