

Dear STEM Educator,

Technology is a great tool for engaging your students. That's why The Wireless Foundation, in partnership with curriculum specialists Young Minds Inspired, has developed **STEM Mobile Labs**, a FREE mobile app that brings together some of the best STEM-focused digital educational content available for Apple and Android phones and tablets.

STEM Mobile Labs features innovative free apps focused on science, technology, engineering and math. This program enables students to leverage wireless technology's unique capabilities to conduct real-world and virtual experiments, do scientific research and more. Here's a look at the broad range of content your students will explore:

- Science apps about astronomy, biology, chemistry, geology, and even particle physics
- Technology apps that explore wind power, electrical circuitry, code scanning, health, and public safety
- Engineering apps that challenge students to build cities, test spacecraft, and design new machinery
- Math apps that provide a range of powerful calculation tools as well as practical lessons in financial literacy

To help you incorporate these apps into your class plans, we have created short activity guides that build on some of the apps featured in **STEM Mobile Labs**. The activity guide for Science is included here. You can download the other activity guides at ymiclassroom.com/wireless. And to help you inform parents about **STEM Mobile Labs**, we also include here a reproducible take-home letter that highlights the learning potential mobile apps can add to their teen's smartphone or tablet.

We encourage you and your students to download **STEM Mobile Labs** and begin exploring the new world of hands-on learning that mobile apps can bring into your classroom. **While the apps are all free, standard data rates may apply during download and usage, so discuss the use of Wi-Fi as an alternate connectivity method with your students when you introduce them to STEM Mobile Labs.**

Please share this valuable program with other STEM teachers in your school, and return the enclosed reply card to let us know your opinion of this program, or comment online at ymiclassroom.com/wireless.

We know that this experience will generate excitement as students discover the possibilities of STEM, and hope that it will help guide some students toward STEM career choices.



Sincerely,
Dr. Dominic Kinsley
Editor in Chief
Young Minds Inspired



STEM MOBILE LABS

TARGET AUDIENCE

This program is designed for use with high school students in all STEM subject areas.

STANDARDS

The program activities meet Common Core and Next Generation Science Standards. For details, visit ymiclassroom.com/wireless.

PROGRAM OVERVIEW

The program consists of the following **FREE** components:

- **STEM Mobile Labs** app available for smartphones and tablets at the Apple App Store or Google Play
- Reproducible two-page activity guide designed to supplement the Science curriculum
- Downloadable activity guides designed to supplement courses in Technology, Engineering, and Math, available at ymiclassroom.com/wireless
- Reproducible letter informing parents of **STEM Mobile Labs** program and the educational value of wireless technology
- A classroom wall poster that outlines the range of technologies built into a smartphone and their unique capabilities
- A reply card for your comments. Or reply online at ymiclassroom.com/wireless.

HOW TO USE THIS PROGRAM

Photocopy the reproducible activity guide and parent letter before displaying the poster in your classroom. Download additional activity guides at ymiclassroom.com/wireless.

Have students scan the QR code on the poster to download the free **STEM Mobile Labs** app. Or they can use Search to find the app at the Apple App Store or Google Play. Pair students who do not have a mobile device with classmates who can share **STEM Mobile Labs** with them.

Review the activity guides and choose the ones most appropriate for your curriculum. Photocopy the activity sheets to provide copies for all your students. Schedule time to have students complete these lessons in class or as

independent study projects. Use **STEM Mobile Labs** to explore the range of STEM content and hands-on learning available through mobile apps with your students.

HOW TO USE THE POSTER

Display the poster in a prominent location to build student interest and provide a focal point for the program. As you explore **STEM Mobile Labs** and complete the activities, challenge students to identify the smartphone technologies employed by different apps and encourage them to come up with their own ideas for expanding the STEM learning potential of their mobile devices with new apps.

HOW TO DOWNLOAD STEM Mobile Labs

Scan the QR code on the poster and activity sheets, or follow these directions:

iPhone & iPad

Touch the App Store icon on your homescreen, then touch the Search icon (a magnifying glass) in the navigation bar at the bottom of the screen and type "**STEM Mobile Labs**" into the search box. Once you have located the app, you can read more about it and touch "Install" to download the app onto your smartphone or tablet. Please note you will need an account (username and password) to complete this step.

Android

From a computer: Go to Google Play at <https://play.google.com/store/apps> and type "**STEM Mobile Labs**" into the search box at the top. There, you can read more about the app and install it on your phone or tablet by clicking the INSTALL button. Please note you will need an account (username and password to complete this step.) You'll then find your newly loaded app after you touch "APPS" in the bottom right-hand corner of your screen.

From an Android smartphone or tablet: Touch the Play Store icon, then touch the Search icon (a magnifying glass) at the top right. Use the keyboard to type "**STEM Mobile Labs**" into the search box, then touch Install.



is the only company developing free, innovative classroom materials that is owned and directed by award-winning former teachers. Visit our website at www.ymiclassroom.com to send feedback and download free programs. For questions, contact us at **800-859-8005** or email us at feedback@ymiclassroom.com.

The Wireless Foundation The Wireless Foundation (www.wirelessfoundation.org) leverages mobile technology via innovative programs that empower individuals and enhance American communities. The Foundation focuses on health, education, children's wireless safety, and environmental sustainability initiatives, which demonstrate the transformative powers and unique capabilities of wireless technology. The Wireless Foundation is a 501(c)(3) nonprofit organization that was formed by CTIA-The Wireless Association® member companies in 1991.

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