

NeuroMaker BCI



Give students access to AI-driven biotechnology with the NeuroMaker Brain-Computer Interface (BCI)

It only needs Chrome browser on a laptop or Chromebook (no login required), and comes with curriculum and instructor resources!



NeuroMaker BCI Technology

NeuroMaker BCI combines a comfortable cutting-edge, AI-powered EEG headband with activities and games that introduce students to neuroscience, machine learning, signal processing, as well as the ethical implications and impact of brain-computer interface.

Applications are endless: Use the BCI as a standalone learning tool, use with the NeuroMaker Hand 2.0 and NeuroRacing, or integrate with third-party microcontrollers for coding and other applications!



Curriculum & Student Projects

NeuroMaker BCI comes with 30+ hours of curriculum, student projects, instructor resources, and capstone competition.

Learning activities include:

- Visualize brainwaves, focus level, relaxation and learn fundamentals of neuroscience.
- Record, process and analyze EEG data.
- Play games controlled by brainwaves.
- Connect and control the NeuroMaker Hand and NeuroRacing cars with your brainwaves.
- Control anything with it - integrate BCI into other microcontrollers and coding platforms!



NeuroRacing



NeuroRacing Technology

Unlock your brain's potential and control the speed of a car with your brain! NeuroRacing is the perfect addition to any STEM program. In this high-stakes, brainwave-driven competition, NeuroMaker BCI's EEG headband measures students' ability to focus to determine the speed of their car going around the slot car track. Setting up is easy - you only need a Windows laptop and a TV/monitor.



With advanced focus training software guiding them, **students learn powerful techniques to enhance and sustain their mental endurance**, essential for controlling their car's speed. Racing head-to-head on the Carrera Digital 132 track, they experience the ultimate tech-driven STEM adventure, navigating sharp turns and straightaways with sheer mental focus.



What's included?

- 2 or 4 BCI Headbands
- NeuroRacing Control Box, Lap Counter and Accessories
- NeuroRacing Software
- A complete set of Carrera® Digital 132 2-lane or 4-lane track
- Wireless Router
- Instructions and Training Materials



NeuroMaker is available to educators exclusively through LAB Midwest:
www.labmidwest.com | (414) 258-6415 | info@labmidwest.com

