

A background image showing several students in a laboratory setting. They are wearing light blue shirts and are focused on working with electronic components on breadboards. A yellow and black robotic arm is visible in the upper left. The background wall is made of light-colored wood panels.

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# Logic Labs

## About Us

After an eye-opening course on computer architecture at Northwestern University, we were inspired to take our passion for hardware and computing beyond the classroom. Through our experiences teaching at the Computer Hardware Society and leading TopUp sessions, we realized the power of hands-on learning in deepening understanding and sparking curiosity.

That's why we founded Logic Labs—an initiative dedicated to providing secondary school students with immersive, practical experiences that complement the Computer Science curriculum. Our goal is to bridge the gap between theory and application, equipping students with real-world practical skills that prepare them for the future of technology.



### Objectives

The unit Logic Gates felt abstract in the GCSE curriculum. Wanting to make the syllabus more practical, we hope to teach students logic gates by getting them to build it themselves, through interesting, hands-on kits.



### What we've done

We have built 50+ kits complete with breadboards, booklets, and an online course on Udemy. We are ready to roll this out, and will begin sending these kits.