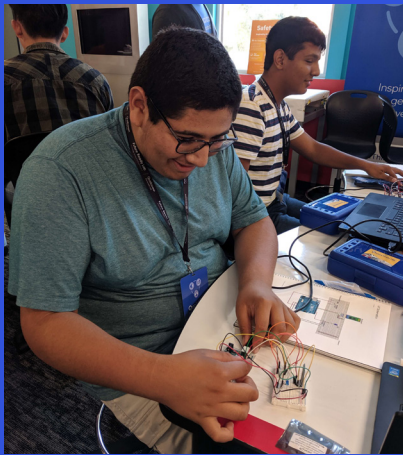


## Samuel F. B. Morse High School

San Diego Unified School District  
San Diego, California

Serves 9th Grade Students  
300+ Students Served



*"Students who 'never do anything' in a teacher's class and try to resist getting engaged in the activities become curious and want to participate in the Thinkabit Lab Signature Experience. It's great to see the students get engaged and the teacher is excited that the students are finally being reached."*

Miranda Shirley, M.Ed, TK-12 Computer Science Resource Teacher  
Morse High School

For more information about the Thinkabit Lab program, please email:

[contactthinkabitlab@qualcomm.com](mailto:contactthinkabitlab@qualcomm.com)

[www.thinkabitlab.com](http://www.thinkabitlab.com)  
[@QualcommforGood](https://twitter.com/QualcommforGood)

A room in Morse High School was converted into a Qualcomm® Thinkabit Lab™ space to serve the high school and Morse Middle School student population, which is underrepresented in STEM (Science, Technology, Engineering and Mathematics) and includes a high proportion of Latinx, African-American and Filipino students. Ninth graders from Morse and other high schools participate in the Thinkabit Lab Signature Experience here.

Teachers at Morse High school bring their students to the Thinkabit Lab for four to five consecutive days for one hour each day. The sessions have sparked excitement among the freshmen, a desire to learn and do more, and to produce - not just consume - technology. Students have expressed interest in spending time in the Thinkabit Lab after school, learning to use different microcontroller components to build inventions.



One team's invention has been used to showcase the role of sensors for other groups of students. The team of female students invented a way to identify unsafe food by measuring the added weight of mold. As mold grows, its weight triggers a sensor and an LED light comes on to indicate the food is not safe.

The school's CTE (College, Career & Technical Education) program, where students work in the information and communication technology pathway, connects to the Qualcomm® World of Work where students learn about engineering and non-engineering careers. Students create their final projects in the Thinkabit Lab in one of four CTE pathways: civil engineering, hospitality/tourism, transportation, and child development/education.

Teachers without previous experience in circuitry or coding are learning as well and middle school principals are excited to start bringing their students to the Thinkabit Lab at Morse High School.

### About Thinkabit Lab

As a company of inventors, Qualcomm cares deeply about STEM. Through the Thinkabit Lab program, students can explore engineering and non-engineering careers and engage in fun and unique hands-on STEM activities. The goal is to:

- Show students from all cultural and socioeconomic backgrounds that they can be part of inventing the wireless world of the future, and
- Encourage them to embrace the opportunity to tackle global challenges and make a difference as the workforce of tomorrow.



The Thinkabit Lab program is facilitated by Qualcomm's Corporate Responsibility team, Qualcomm for Good.