

Dogwood Elementary School

Reston, Virginia

6th Grade Students

200+ Students Served



"This program makes the idea of technology, coding and electronics something tangible and real for students. Knowing they can invent something that solves a problem is vital. It leads them to higher level thinking and questioning, "What can I do with this?" It's a new way of teaching and learning."

Mark Moseley, Steam Resource Teacher
Dogwood Elementary School

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

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The Qualcomm® Thinkabit Lab™ program at Dogwood Elementary School in Reston, Virginia started two years ago, after students and their teacher visited the Thinkabit Lab at Virginia Tech. 83% of the students are eligible for free or reduced lunches at this Title 1 school, which serves a diverse population that includes Hispanic, Black, Asian and White students, who typically have limited access to Science, Technology, Engineering and Mathematics (STEM) education.

The STEAM (STEM +Arts) Resource Teacher at Dogwood Elementary meets with sixth-grade students weekly, once a day for an hour in the Thinkabit Lab. The students collaborate in teams to assemble circuits on microcontrollers and use LED lights and motors to create inventions, often to solve school- or community-related problems. One team invented a special net that could be used to capture an invasive species called the northern snakehead and remove it from the Chesapeake Bay.



The sixth graders who engage in activities in the Thinkabit Lab at Dogwood Elementary are eager to do more outside of school, and some have asked to take the microcontrollers home. Their experiences have also shown these young students how STEM education can lead to future jobs. Parents have said that they are very impressed with the program.

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.

