

CASE STUDY

LITTLEBITS CLASSROOM INTEGRATION COLONIAL SCHOOL DISTRICT

3RD - 5TH GRADES, 9TH - 12TH GRADES

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CONTEXT

The Colonial School District’s STEAM culture empowers students to develop innovative ideas and solve problems in an environment where they can explore, plan, create, experiment and improve. This culture encourages students to be flexible and adaptive to experiences that may span beyond the classroom and across the globe, preparing them for tomorrow’s workforce. In the Colonial School District, curriculum drives the use of technology to augment teaching and student learning. Sergio and his team created a K-6 Technology Integration Curriculum built around five units of study: Digital Citizenship, Coding and Programing, Digital Storytelling, Creating and Designing, and Communication and Collaboration to prepare their 4,300 students for success in an ever-changing world.

PROGRAM

Sergio and his team established that littleBits could best support their Creating and Designing unit, which provides students the opportunity to generate new ideas, products, or processes while creating original works as a means of individual or group expression. littleBits is used in the district’s fifth grade Social Studies unit on Inventors and Inventions. In this unit, which follows a unit in which students learn about civil rights and the Americans with Disabilities Act, students are challenged to design an invention that will make life in contemporary society better for disabled people.

The Bits are also available in the district’s Plymouth Whitmarsh High School makerspace. The PWHS makerspace is a space for students to gather to invent, experiment, and learn, using technology not found in typical classrooms. In addition to being open during the library’s regular hours, special demonstration and interactive sessions are scheduled for I-Block and after school.

**LITTLEBITS
CLASSROOM
INTEGRATION
INCLUDES**



- 1 Invention Lab
- 1 Workshop Set per classroom
- 1 additional free PD seat for every 5 classrooms
- 1 PD seat per classroom
- 1 Craft Pack per classroom