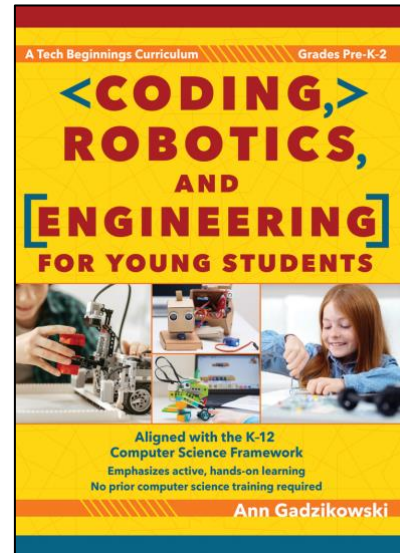


Coding, Robotics, and Engineering for Young Students: A Tech Beginnings Curriculum

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Summary

Coding, Robotics, and Engineering for Young Students builds foundational computer science and robotics skills and knowledge in bright Pre-K-grade 2 students. Originally developed as enrichment courses for Northwestern University's Center for Talent Development, this curriculum emphasizes active, hands-on, and collaborative learning. Students are challenged to learn computer science content, such as coding, and robotics and engineering concepts, as well as practice high-level academic skills, such as creative problem solving, computational thinking, and critical thinking. Instructional practices balance screen time with active, collaborative classroom engagement. Learning is deepened when students are challenged to navigate the transition from a virtual learning environment to a tangible learning environment. The lessons can be implemented as standalone enrichment experiences or as part of a coordinated scope and sequence that leads to higher level computer science and engineering studies.

Other Resources

- *No Fear Coding: Computational Thinking Across the K-5 Curriculum* (IST3677)
- *Gears: Science, Technology, Engineering & Mathematics Activities, Years F-2* (6110)
- *Everyday Engineering: Putting the E in STEM Teaching and Learning* (NST0577)
- *Breaking Through! Helping Girls Succeed in Science, Technology, Engineering and Maths* (PRU4174)