

CoderZ

Adventure: Trailblazers



A TEKS Aligned, Gamified Introduction to Computer Science

Hey Trailblazers, welcome to a grand adventure! On this exciting journey students will navigate captivating worlds as they learn the foundations of programming and robotics. This introductory course is specially designed for Texas and is fully aligned to TEKS Grade 3 Technology Applications. Students will learn robotics essentials like sensors, loops, conditionals, and variables, as well as broader problem solving, design, and analysis skills. Each lesson includes TEKS-aligned ELAR and Mathematics extensions which incorporate digital citizenship, impacts of technology, and data science standards.

- + 3rd Grade Curriculum
- + Suitable for teachers of all backgrounds
- + Blockly Coding
- + Easy, web-based access
- + Interdisciplinary
- + Designed for Texas

CoderZ Adventure: Trailblazers offers an introductory view of CS education through a variety of lenses: Engineering Design, Algorithms & Coding, Ethics & Impacts of Tech, and more.

STUDENT OUTCOMES:

- + Fundamentals of robot systems
- + Coding with loops and conditionals
- + Planning and problem solving
- + Critical thinking with debugging
- + Geometry and Data Analysis
- + Technology Impacts and Digital Literacy

* Full alignment to the revised TEKS for Technology Applications

All lessons include clear learning objectives and assessment opportunities

TEACHING RESOURCES:

- + Teachers' guide
- + Guiding question for each lesson
- + Reflection questions
- + Quizzes
- + Project rubrics and exemplars
- + Slides for lesson guidance in classroom
- + Knowledge base and help desk
- + Heatmap for tracking student progress
- + Suggested solutions (for teachers)