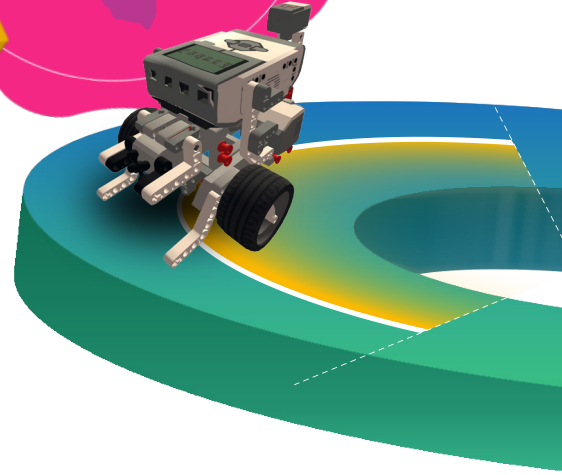


CoderZ

Code Farm: Breaking Ground



A TEKS Aligned, Gamified
Introduction to Computer Science

Saddle up for the coding and robotics course that ropes in students with all aspects of STEM using a discovery-based approach! Students navigate a virtual robot through agricultural-themed missions as they learn coding basics such as sensors, loops, and conditionals. Fully aligned to TEKS Grade 5 Technology Applications standards, the course goes beyond programming to incorporate a wide range of problem solving, design, and analytical skills. Interdisciplinary extensions review key ELAR and Mathematics concepts in the context of digital citizenship, data literacy, and innovative technologies.

- + 5th Grade Curriculum
- + Suitable for teachers of all backgrounds
- + Blockly Coding
- + Easy, web-based access
- + Interdisciplinary
- + Designed for Texas

Code Farm: Breaking Ground offers a broad view of CS education through a variety of lenses: Engineering Design, Algorithms & Coding, Ethics & Impacts of Tech, and more.

STUDENT OUTCOMES:

- + Practicing debugging skills
- + Using sensors to navigate a robot
- + Using repeat loops
- + Using variables
- + Creating and collaborating on projects

*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)

