CoderZ

Complete Education Solution For **Coding and Robotics**

Equipping **students** for success in the jobs of tomorrow

... by supporting **educators** in their jobs today

STEM and digital literacy education are essential skills for future career success and should be universally available to all kids from K to 12. At CoderZ we built a gamified education platform that makes it easy for students to develop digital fluency while learning computer science and robotics.

CoderZ is an online, virtual robotics application with curricula that brings subject matter to life and enables schools to engage students in STEM learning while having fun.

Why CoderZ?

- Online, gamified education platform
- Easy to use and fun for students
- Value for students, teachers, and administrators
- Teaching coding with simulation, curriculum, class management, and more
- Created by educators for educators to make teaching computer science easier
- Solution for schools and districts to plan, implement and track CS education

All you need is Wi-Fi

Chromebook Compatible

Engaging Game Based Design

Robust Teacher Support

To learn more, visit gocoderz.com

CoderZ Curriculum

CoderZ Adventure with LEGO® Education SPIKE™Prime

CoderZ Adventure is a launch pad for young learners! Students learn the basics of computer science, problem solving, and critical thinking while performing simple math and geometry using loops. sensors, and more. Learners guide a virtual robot through exciting adventures as instructors guide them through exploration and discovery!

Blockly
3rd-5th Grade
24-30 hrs

Code Farm

Code Farm connects students to coding with gamified missions that are fun. The introductory coding and robotics course engages students in all aspects of STEM with a discovery-based approach. Educators use targeted skill-building lessons, with open-ended project work, so students can apply what they learn to challenging problems.

Blockly
5th-6th Grade
45-60 hrs

Cyber Robotics 101

Cyber Robotics 101: Airport City empowers educators to teach students the fundamentals of coding and robotics. The course guides students to discover CS concepts by programming their own virtual robot through gamified missions. Students will practice computational thinking. problem solving, and soft skills.

Blockly
6th-9th Grade
20-25 hrs

Cyber Robotics 102

Cyber Robotics 102 continues with a deeper dive into computer science and robots. The course focusses on variables. robotics-related algorithms. and physics in a realistic, changing obstacle environment that introduces kinematics and dynamics. This promotes critical thinking, collaboration, investigation, troubleshooting, and problem solving.

Blockly
8th-12th Grade
25-30 hrs

Python Gym

Python Gym helps students flex their coding muscles with text-based programming and syntax. Python Gym is for students with an intermediate level programming. The structured missions allow students to progress at a self-directed pace learning object-oriented programming as they learn to design, code, and debug Python programs.

Python
8th-12th Grade
30+ hrs

CoderZ League & League in a Box

League is an international robotics competition attracting over 150,000 students in over 30 countries. Working in teams, competitors quickly improve their STEM and coding skills through cohort-based learning. League in a Box creates a virtual competition for a community bringing the excitement of competition to a school, district or state.

Blockly
Novice/Jr/Pro
4th-12th Grade

Structured missions and flexible pacing to fit classroom schedules, learner experience levels and educator needs

Gamified, Virtual Coding and Robotics curricula designed for grades 3-12 , ensuring students are equipped for success in the jobs of tomorrow

Great for Teachers

Not all educators are computer programmers and CoderZ is designed to help build their knowledge and competencies with a important focus on teacher resources including:

- Teacher Dashboards
- Instructional videos
- Course outlines
- Lesson plans
- Sample programs
- Professional development
- Access to student work online
- Grading and assessment tools

Made for School Admins

- District, school, educator and student level access levels and features
- IT friendly - No installation required
- Class management friendly - Integration with rostering
- Academically aligned with assessments, quizzes, and evaluations
- Student progress tracking, heatmaps, outcome tracking for teachers and administrators
- Compliant with COPPA, FERPA privacy and IT requirements

For Teachers and Students Without Prior Experience in Coding or Robotics

Developed by STEM educators, combining best practices for educational outcomes and student engagement
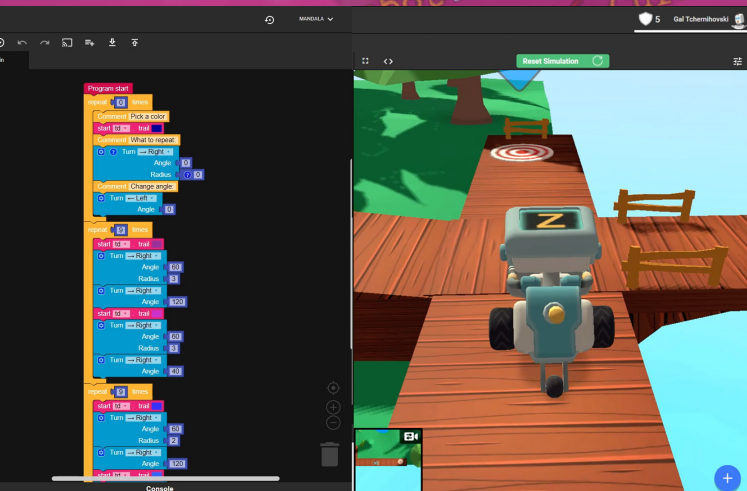
Standard Alignment

Courses are created from the ground up to be **100% aligned** to the key educational standards like CSTA, NGSS, ISTE and state standards like Texas TEKS and New York standards. We've also aligned to key ELAR, Mathematics, and Science standards.
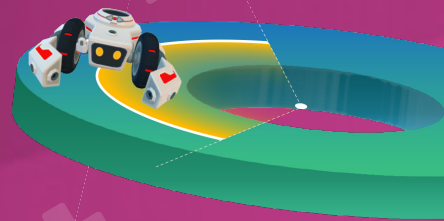
CoderZ for **All** Students

At the core of CoderZ's philosophy lies the commitment to ensuring that learning is **inclusive, unintimidating and available to all students**. This supports industry cultivating a more diverse workforce.

CoderZ's web-based platform, approach to content delivery, and design of the curricula is built to be inclusive and accessible to a diverse range of students, including underrepresented and underserved students.

Awards and Partnerships

Aligned with **CSTA** & NGSS Standards

LEGO education

//CODiE//
2021 SIIA CODiE WINNER

TECH & LEARNING AWARDS OF EXCELLENCE
REMOTE LEARNING
WINNER

THE TECH EDVOCATE AWARDS 2020 WINNER
BEST HIGHER EDUCATION SOLUTION

AMAZON CYBER ROBOTICS CHALLENGE </>

THE EDTECH AWARDS
COOL TOOL FINALIST 2019

Platform and Resources Available in English and Spanish

🌐 www.GoCoderZ.com   ✉ contactus@gocoderz.com