





Python Gym

Introduce students to the world's #1 programming language!

Students learn object-oriented programming and enhance their critical thinking and problem-solving skills as they learn to design, code, and debug Python programs.

 High School/Advanced
 20-25 hours of curriculum & practice

 Build with Python



Easy, web-based access for all



Ready for anything – Hybrid or Virtual



Inclusive - No experience required



Connects coding to real-world scenarios



Introduces students to critical workplace programming

STUDENTS LEARN:

- + Physics:
 - Kinematics: speed, acceleration
 - Dynamics: Forces, moments, levers
- + Control systems:
 - Motors and sensors
 - Speed control
 - Obstacle detection/avoidance
 - Open/close loop control
 - State machine
- + Software:
 - Operators: mathematical & logical
 - Conditions and Loops
- + Mathematics:
 - Geometry & stereo-metric: distance, angles, coordinates
 - Spatial cognition
- + Text-based language & solving syntax errors.

Lessons are aligned with CSTA and NGSS standards.

TEACHERS RESOURCES:


COURSE PROGRESS HEATMAP


TEACHER'S GUIDES


LESSON PLANS


KNOWLEDGE BASE CENTER


SUGGESTED SOLUTIONS


HELP DESK

SIGN UP FOR A FREE TRIAL NOW!