

The robot will serve as a hands-on instructional tool that allows students to design, program, test, and refine automated systems.

Through the use of the robot, students will develop skills in coding, robotics, mechanical design, problem-solving, systems thinking, and troubleshooting. The equipment supports project-based learning and gives students practical experience with industry-relevant technology used in manufacturing, automation, and engineering fields.

By integrating the robot into classroom instruction, students will:

- Apply engineering concepts in real-world scenarios
- Strengthen critical thinking and analytical skills
- Gain experience in programming and automation
- Improve collaboration through team-based design challenges
- Build career-ready STEM skills

Overall, this purchase will enhance student learning by increasing engagement, promoting hands-on application of engineering concepts, and preparing students for college and career pathways in STEM fields