

MEDICAL ROBOTICS

GRADES 8–12

This document lists the Ohio learning standards addressed by Medical Robotics, True Robotics' grades 8–12 robotics curriculum. Standards are grouped by subject and grade level, with codes and wording as published by the Ohio Department of Education and Workforce.

4

SCIENCE

6

CS

10

TOTAL STANDARDS

SCIENCE

4 STANDARDS

Based on the Ohio state standards

GRADE	CODE	STANDARD
8	6.LS.4	Living systems at all levels of organization demonstrate the complementary nature of structure and function.
8	8.PS.2	Forces can act to change the motion of objects.
8	6-8.ID.4.c	Students engage in a design process to develop, test, and revise prototypes, embracing the cyclical process of trial and error and understanding problems or setbacks as potential opportunities for improvement.
9–12	9-12.CT.5.c	Students break problems into component parts, extract key information, and develop descriptive models to understand complex systems or facilitate problem-solving.

COMPUTER SCIENCE

6 STANDARDS

Based on the Ohio state standards

GRADE	CODE	STANDARD
8	ATP.A.8.a	Create multiple pseudocode to solve a multi-step process and justify the most efficient solution.
8	ATP.VDR.6.b	Create variables and use them within a multi-step process.
8	ATP.CS.8.a	Use and apply decisions and loops in a program to solve a problem.
8	CS.HS.8.a	Design projects that combine hardware and software components that could complete a task.
9–12	ATP.M.9-12.F.a	Break down a solution into procedures using systematic analysis and design.
9–12	IC.Cu.9-12.F.a	Analyze new technology to predict realistic impacts on society.

SOURCES & NOTES

- The official science and computer science standards for Ohio, as published by the Ohio Department of Education and Workforce.
- Codes and standard wording are reproduced from the official standards documents. Clarification statements, examples and assessment boundaries are omitted.
- Grade shows the grade level at which True Robotics lessons address each standard. A range (for example K-2) marks a standard written for a grade band.
- Standards text remains the property of its publisher and is reproduced here for alignment reference only.
- A lesson-level crosswalk is available on request at info@truerobotics.org.