

MEDICAL ROBOTICS

GRADES 8–12

This document lists the South Carolina 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 South Carolina Department of Education.

4

SCIENCE

4

CS

8

TOTAL STANDARDS

SCIENCE

4 STANDARDS

Based on the South Carolina state standards

GRADE	CODE	STANDARD
8	6-LS1-3	Use argument supported by evidence for how the body is a system of interacting subsystems composed of groups of cells.
8	8-PS2-2	Plan an investigation to provide evidence that the change in an object's motion depends on the sum of the forces on the object and the mass of the object.
9–12	B-LS1-2	Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.
9–12	B-LS1-3	Plan and conduct an investigation to provide evidence that feedback mechanisms maintain homeostasis.

COMPUTER SCIENCE AND DIGITAL LITERACY

4 STANDARDS

Based on the South Carolina state standards

GRADE	CODE	STANDARD
8	8.AP.1.3	Write clear instructions using flowcharts.
8	7.AP.1.3	Write clear instructions using pseudocode.
8	8.AP.3.1	Decompose a problem into functional parts.
8	8.IC.1.2	Analyze positive and negative impacts of computing on society (e.g., personal, health, workforce, economy, education, culture, environment).

SOURCES & NOTES

- The official science and computer science standards for South Carolina, as published by the South Carolina Department of Education.
- 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.