



Yale-New Haven
Teachers Institute®

Curriculum Units by Fellows of the Yale-New Haven Teachers Institute
2014 Volume IV: Engineering in Biology, Health and Medicine

Robotics in the Medical Field

Guide for Curriculum Unit 14.04.05
by Jonathan Cap

This unit will explore robotics throughout the medical field and parallels in various aspects of nature. Students will learn about the following topics: minimally invasive robotic surgery, prosthetics, nanobots, and the mechanics of flagellum and bacterial motility. By understanding how simple machines are mimicked in nature and how robotics is advancing the medical field, students will have a deeper understanding of how robotics are becoming a part of our everyday lives. This will allow students to think imaginatively when creating projects for this unit, future units, and their everyday lives.

(Recommended for Robotics, grades 9-12)

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