



MLSC-Eligible OpenSciEd and PLTW Kits

The following kits offered by OpenSciEd and PLTW include content meeting the MLSC definition of *life sciences** and are eligible for MLSC grant funding.

<u>OpenSciEd</u>		
<u>Grade 3</u> Unit 3.3 Trait Variations	<u>Grade 7</u> 7.1 Chemical Reactions & Matter Transformation 7.2 Chemical Reactions and Energy 7.3 Metabolic Reactions 7.4 Matter Cycling & Photosynthesis	<u>High School- Biology</u> - B.3 Inheritance & Variation of Traits - B.4 Natural Selection & Evolution of Populations - B.5 Common Ancestry & Speciation
<u>Grade 4</u> Unit 4.4 Structure & Function		
<u>Grade 6</u> 6.1 Light & Matter 6.6 Cells and Systems	<u>Grade 8</u> 8.5 Genetics 8.6 Natural Selection and Common Ancestry	

PLTW	
<u>PLTW Launch Elementary STEM Grades 3-5</u>	<u>High School Engineering Grades 9-12</u>
<u>Grade 3</u> Variation of Traits	<u>PLTW Engineering</u> - Engineering Essentials - Introduction to Engineering Design - Principles of Engineering - Computer Integrated Manufacturing - Digital Electronics - Engineering Design and Development (Capstone)
<u>Grade 4</u> - Input/Output: Computer Systems - Input/Output: Human Brain - Organisms Structure and Function	
<u>Grade 5</u> - Robotics and Automation - Robotics and Automation Challenge - Infection: Detection - Infection: Modeling and Simulations	<u>PLTW Computer Science</u> <i>Note: Applications must describe explicit connection to life sciences to be eligible for funding (life sciences data sets, medical case studies, etc.)</i> Computer Science Essentials

<u>PLTW Gateway Middle School Grades 6-8</u> • Design and Modeling • Automation and Robotics • App Creators • Computer Science for Innovators and Makers • 5. Medical Detectives	• Computer Science Principles (AP-aligned) • Computer Science A (AP-aligned) <u>PLTW BioMed</u> • Principles of Biomedical Science • Human Body Systems • Medical Interventions • Biomedical Innovation • PLTW Capstone (shared)
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Other kits by these curriculum providers are *not* eligible for grant funding. Please consider the additional funding sources below for kits not listed here:

- Mass Clean Energy (CEC)
- Mass Tech
- One 8 Foundation
- Executive of Office of Education

The “life sciences” are defined in the MLSC’s enabling legislation as “advanced and applied sciences that expand the understanding of **human physiology and have the potential to lead to medical advances or therapeutic applications.” Activities/curricula should seek to enhance skills relating to human biology/biomedical sciences, chemistry, engineering, robotics, and/or computer/data science that will prepare them for life sciences careers in sectors such as biotechnology, pharmaceuticals, medical device/technology, medical diagnostics, bioinformatics, and digital health. Activities related to the following are not eligible for funding: earth and space science, clean energy, climate/environmental science, gardening/botany, animal science/veterinary assisting, and allied health/healthcare (e.g. nursing, medical assisting, etc.).*