Massachusetts PLTW Sustainability Grant

The impact of COVID-19 has presented schools with unprecedented challenge. We applaud the efforts of educators who are continuing to prioritize the needs of students during this difficult time.

Recognizing that COVID-19 may also have an impact on educational budgets, in partnership with the One8 Foundation, we are pleased to announce that sustainability funding may be available to assist your school in supporting PLTW programming. This grant can provide partial funding for FY22 program fees and consumables, and teacher training given unexpected staff changes. Schools will be required to meet certain eligibility criteria and subject to grant requirements. Schools interested in funding are encouraged to submit their applications by April 16, 2021.

Grant Purpose

The sustainability grant is intended to provide one-time support for PLTW programs and offset participation fees, consumable costs, and in some cases training. This grant is not designed to cover all costs.

Grant Application

- **Sustainability Funding (for FY22)**: Schools can complete the application at this link.

Eligibility Requirements

- Must be a public school in Massachusetts.
- Chapter 74 programs (vocational-technical programs) are not eligible.
- Elementary and middle schools must have rostered 20% or more of their students in SY19-20. *(Schools that launched their PLTW program after SY19-20 are required to roster, but do not need to meet the 20% requirement to be eligible for this opportunity).*
- High schools must have rostered a minimum of 10 students per course in SY19-20 and have a confirmed plan to build out a 3-course pathway. *(Schools that launched their PLTW programs after SY19-20 are required to roster, but do not need to roster a minimum of 10 students per course to be eligible for this opportunity).*

Grant Agreement Requirements

If awarded a grant, your school will receive a grant agreement that includes the following requirements for SY21-22.

- Complete all implementation steps according to your application and grant agreement.
- Accurately roster all students participating in PLTW programs at your school.

- Ensure students are properly enrolled in PLTW courses for the October reporting to the Department of Elementary and Secondary Education (DESE) of the Student Schedule System (SCS) and Student Information System (SIM).
- Ensure all high school students will take PLTW End-of-Course assessments.
- Ensure a minimum of two representatives attend PLTW Massachusetts Networking Conference and Spring PD Day.
- Ensure qualified teachers will be selected to attend PLTW professional development and teach PLTW content. Math, science, vocational-tech credential, or relevant industry experience is required for 6-12 and strongly encouraged for K-5.
- Students (Grades 6-12) and teachers will be required to complete surveys as designed by PLTW, Mass STEM Hub, or its designated survey vendor.
- PLTW middle and high school teachers commit to participating in Mass STEM Hub online challenges to submit student work for industry feedback.
- If applying for teacher training through this grant, attend teacher professional development at WPI or UMass Lowell unless the needed course is not offered or extenuating circumstances arise. Extenuating circumstances evaluated in rare occasions.
- Agree to data sharing with Mass STEM Hub or designated research firm (i.e. data that is reported to PLTW can be shared with Mass STEM Hub).
- Complete financial and grant reports by March 1st of each granted year.

Grant Funding

Sustainability grants will be based on the following calculations:

- PLTW Annual Participation Fee: 50% of the total fee.
- Teacher Training: 50% of Training Registration Fee. *Available only in the event that the current trained teacher is no longer employed by the school.*
- Consumables: 50% of the cost of consumables for one classroom of 24 students for each PLTW module, unit, or course that you offer.

	Annual PLTW Participation Fee (50% of total is below)	**Teacher Training** (50% of total is below)	**Consumables**
PLTW Launch	**$475**	**$250**	**See table at the end**
PLTW Gateway	**$475**	**$600**	**See table at the end**
PLTW Computer Science	**$1,000**	**$1,200**	**See table at the end**
PLTW Engineering	**$1,500**	**$1,200**	**See table at the end**

PLTW Biomedical Science	**$1,500**	**$1,200**	**See table at the end**

If interested in applying for this grant, the first step is to reach out to your Director of School Engagement, Suzie Snow ssnow@pltw.org or Mary Laturnau mlaturnau@pltw.org. Suzie and Mary can also provide you with information on additional PLTW and Mass STEM Hub supports that have been created to help you navigate the challenges of delivering your PLTW programming in a hybrid or virtual environment.

50% of Consumable Cost One Classroom of 24 Students	
PLTW Launch	
PreK.1 Life Science: Living and Nonliving Things	$154
PreK.2 Matter: Floating and Sinking	$132
PreK.3 Healthy Habits	$159
PreK.4 Spatial Sense and Coding	$62
K.1Structure and Function: Exploring Design	$103
K.2 Pushes and Pulls	$53
K.3 Structure and Function: Human Body	$120
K.4 Animals and Algorithms	$28
K.5 Sunlight and Weather	$104
K.6 Living Things: Needs and Impacts	$80
1.1 Light and Sound	$61
1.2 Light: Observing the Sun, Moon, and Stars	$89
1.3 Animal Adaptations	$109
1.4 Animated Storytelling	$28
1.5 Designs Inspired by Nature	$128
2.1 Materials Science: Properties of Matter	$55
2.2 Materials Science: Form and Function	$106
2.3 The Changing Earth	$41
2.4 Grids and Games	$28
2.5 Living Things: Diversity of Life	$95
3.1 Stability and Motion: Science of Flight	$80
3.2 Stability and Motion: Forces and Interactions	$28
3.3 Variation of Traits	$127
3.4 Programming Patterns	$28
3.5 Weather: Factors and Hazards	$105
3.6 Life Cycles and Survival	$123
3.7 Environmental Changes	$27

4.1 Energy: Collisions	$61
4.2 Energy: Conversion	$90
4.3 Input/Output: Computer Systems	$28
4.4 Input/Output: Human Brain	$166
4.5 Waves and Properties of Light	$27
4.6 Organisms: Structure and Function	$113
4.7 Earth: Past, Present, and Future	$118
4.8 Earth: Human Impact and Natural Disasters	$27
5.1 Robotics and Automation	$28
5.2 Robotics and Automation: Challenge	$28
5.3 Infection: Detection	$65
5.4 Infection: Modeling and Simulation	$28
5.5 Matter: Properties and Reactions	$108
5.6 Ecosystems: Flow of Matter and Energy	$72
5.7 Patterns in the Universe	$27
5.8 Earth's Water and Interconnected Systems	$75
PLTW Gateway	
Design and Modeling	$279
Automation and Robotics	$130
App Creators	$52
Computer Science for Innovators and Makers	$57
Energy and the Environment	$462
Flight and Space	$271
Science of Technology	$403
Magic of Electrons	$256
Green Architecture	$259
Medical Detectives	$482
PLTW Computer Science	
Computer Science Essentials	$52
Computer Science Principles	$61
Computer Science A (no consumables)	$0
Cybersecurity	$562
PLTW Engineering	
Engineering Essentials	$795
Introduction to Engineering Design	$1,093

Principles of Engineering	$288
Aerospace Engineering	$821
Civil Engineering and Architecture	$243
Computer Integrated Manufacturing	$381
Computer Science Principles	$61
Digital Electronics	$377
Environmental Sustainability	$1,602
Engineering Design and Development	$127
PLTW Biomedical Science	
Principles of Biomedical Science	$1,554
Human Body Systems	$1,918
Medical Interventions	$2,280
Biomedical Innovation	$1,397