



Kenton County School District | *It's about ALL kids.*

**THE KENTON COUNTY BOARD OF
EDUCATION**

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41017

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Dr. Henry Webb, Superintendent of Schools

KCSD ISSUE PAPER

DATE:

5/29/18

AGENDA ITEM (ACTION ITEM):

Project Lead The Way Gateway To Technology Grant for 6 - 8 STEM

APPLICABLE BOARD POLICY:

04.61 Gifts and Grants

HISTORY/BACKGROUND:

The Kenton County School System is applying for Project Lead the Way (PLTW) Gateway To Technology (GTT) Grant. PLTW GTT is a 10 course curriculum for STEM education for 6-8 grade. This grant, will consist of equipment, participation fee, and training for one middle school teacher to implement the PLTW Gateway Computer Science for Innovators and Makers Unit course, services and resources that will be used to offset the eligible PLTW program implementation costs associated with PLTW GTT.

FISCAL/BUDGETARY IMPACT:

The PLTW GTT grant is \$3,000 for one year and is not a matching grant. It is unknown if we will be able to reapply once the grant period ends.

RECOMMENDATION:

It is recommended that we accept the PLTW Gateway To Technology Grant if awarded to KCSD.

CONTACT PERSON:

Francis O'Hara

Principal

Director

Superintendent

Use this form to submit your request to the Superintendent for items to be added to the Board Meeting Agenda.

Principal –complete, print, sign and send to your Director. Director –if approved, sign and put in the Superintendent's mailbox.

Kenton County Board of Education

Board Members: Carl Wicklund, Chairperson Karen L. Collins, Vice Chairperson Joshua Crabtree, Esq. Carla Egan Jessica Jehn
"The Kenton County Board of Education provides *Equal Education & Employment Opportunities.*"

Eligibility Requirements:

PLTW Program: PLTW Gateway

Program Requirements: Grantees must not already offer or enroll students in PLTW Gateway units during the 2017-2018 academic year. Grantees must begin offering PLTW Gateway Computer Science for Innovators and Makers in the 2018-2019 academic year.

School Type: Public

Geographic Area: Schools must be located in the state of Kentucky.

Other: This grant, which will consist of equipment, services and resources made available to the Grantee, to be determined at the discretion of PLTW and the Kentucky Department of Workforce Investment, will be used to offset the eligible PLTW program implementation costs associated with PLTW Gateway's Computer Science for Innovators and Makers unit.

PLTW will directly apply grant funding for the approved products and services. Grant funds will not be sent directly to schools; instead, PLTW will send the following grant funded equipment and acknowledgements for the following program implementation costs:

- PLTW Gateway program participation fee for the 2018-2019 school year.
- Teacher training fee for one teacher to complete PLTW Gateway Computer Science for Innovators and Makers unit training.
- PLTW Gateway equipment valuing up to \$1,050. Schools must implement the PLTW Gateway Computer Science for Innovators and Makers unit.

Grant Award and Distribution Schedule:

Total Award: \$3,000

- 2018-2019: \$3,000
- Grant funded equipment and expenditure acknowledgements will be sent to schools

Use of Funds**Grant Reporting Requirements:**

Grantees receiving a PLTW grant are required to submit the following reports annually on April 15 for the duration of the grant period: Annual Grant Report and the Annual Grant Financial Report.

**PLTW GRANT: COMPUTER SCIENCE FOR INNOVATORS AND MAKERS UNIT
WOODLAND MIDDLE SCHOOL**

The 9th through 12th grade scholars have career pathways established with maximum enrollment at the Kenton County Academies of Innovation and Technology. Kenton County Schools has 4 middle schools (Summit View Academy (SVA), Twenhofel (TWMS), Turkeyfoot (TFMS), and Woodland (WMS)). The GTT program has 10 curriculum trainings:

1. Computer Science for Innovators and Makers*
2. Automation and Robotics*
3. App Creators*
4. Energy and the Environment*
5. Science of Technology*
6. Medical Detective*
7. Design and Modeling (All M.S. Teachers have completed)
8. Flight and Space
9. Magic of Electrons
10. Green Architecture

The Structure Proposal for the PLTW Middle School Teacher Training Program:

Each middle school teacher will complete two courses per summer. The courses with an * will be the target courses established to have a specific flow into the PLTW High School Pathways.

Each of these classes builds a strong foundation for high school, college, and career. In addition, the courses allow a flow from 6th through 8th grade that prepares them for their high school pathway into the Academy. Presently, each middle school has one teacher, who has completed at least two GTT Course.

The result will be a successful flow from 6th through 12th grade for scholars to have the needed skills, knowledge, and certifications to enter the workforce, college/university, or both.

At present, each middle school has established some level of PLTW Gateway to Technology (GTT) Program. The PLTW Gateway to Technology grant will provide the funding needed to establish the Computer Science for Innovators and Makers Unit registration, equipment, supplies, and school fee for one teacher from Woodland Middle School to establish the new curriculum.

Additional Grant funding, Perkins Funds, Business & Industry financial support, KDE FUNDS and district funds will be needed to establish the K-12 STEM structure.

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Woodland Middle School - Review Grant Application

PLTW Gateway (6-8)

Personal Information

Name	Dr. Francis O'Hara
Email	francis.ohara@kenton.kyschools.us
Phone	859-344-8888

Grant Contacts

Primary Contact

Name	Dr. Francis O'Hara
Email	francis.ohara@kenton.kyschools.us
Which of the following roles best describes you?	Career & Technical Education Administrator
Phone	859-344-8888

Secondary Contact

Name	Christi Jefferds
Email	christi.jefferds@kenton.kyschools.us
Which of the following roles best describes you?	Principal/Asst. Principal
Phone	859-344-8888

How did you hear about the PLTW grant program?

Colleague in my school or district

What best describes your type of organization?

Public School(Traditional or Charter)

District Information

Name	Kenton County School District
Address	1055 Eaton Drive

**My
Sites**

State	KY
Zip	41017

School Information

Name	Woodland Middle School
Address	5399 Old Taylor Mill Road
Address (cont.)	
City	Taylor Mill
State	KY
Zip	41015

Additional Information

PLTW Gateway (6-8)

Do you currently offer this program to students at your school?

Yes

Which units is your school interested in implementing ?

Computer Science for Innovators and Makers

Student enrollment information for your organization

Total Student Enrollment	339
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Student Enrollment by Ethnicity

American Indian/Alaskan	0
Asian/Pacific Islander	2
Black/African American	22
Hispanic/Latino	15
White/Caucasian	280
Two or more races	20

Student Enrollment by free/reduced price meals

Reduced-price Lunch Eligible	35
Free Lunch Eligible	304

Which of the following individuals have been involved in discussions regarding implementing and supporting PLTW programs?

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Principal;Program/Curriculum Coordinator;School
Board;Students and Parents;Superintendent or
Assistant Superintendent;Teachers

Please share how your school has prepared to implement or expand your PLTW programs next school year

Engaged community and/or business stakeholders for support

true

Estimated program investment using the PLTW Investment Tool

true

Consulted with IT staff regarding technology requirements

true

Gathered input from administrators and/or teachers with previous PLTW experience

true

Determined how to schedule PLTW during the school day

true

Identified potential PLTW teacher(s)

true

Attended a PLTW event or conference

true

Connected with another PLTW district or school

true

Referencing the individuals and activities you selected above as a guide, provide a narrative of the involvement and support of those individuals during your school's planning activities for PLTW next year.*

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Kenton County Schools has 11 E.S., 4 M.S., 3 H.S., and 1 Career School. The Career School has all 8 Engineering, all 4 Computer Science, and all 4 Biomedical curriculums in place as of Aug. 2018. Our goal is to have all 11 E.S. have Launch by Aug. 2019. Our 4 M.S. currently have 2 to 5 of the 10 GTT courses at each school. The goal is to have at least 6 at each school by August 2019. Woodland M.S. will be the 1st to offer the Computer Science for Innovators & Makers Unit. All areas listed above have been addressed and used as a guide to make K-12 STEM happen in our district.

Describe the current role of the individual(s) who will teach PLTW next year and why they were selected. If you have not selected a PLTW teacher(s), describe the plan for selecting them and what qualities you will seek in a candidate.

Mrs. Pam Hanson has taught PLTW GTT Courses for many years and is excited to learn and offer the PLTW GTT Computer Sciences for Innovators & Makers Unit. The goal is to have the other 3 M.S. PLTW GTT Teachers to attend the same training in the summer of 2019. Mrs. Hanson will be the mentor to the other 3 teachers to

**My
Sites****In what grade levels are you interested in making PLTW courses available to students?***

Pre-K	true
Kindergarten	true
1st Grade	true
2nd Grade	true
3rd Grade	true
4th Grade	true
5th Grade	true
6th Grade	true
7th Grade	true
8th Grade	true
9th Grade	true
10th Grade	true
11th Grade	true
12th Grade	true

What is your plan for scheduling this PLTW program into the school day next year?

Woodland M.S. has PLTW GTT already built into the daily scheduling structure. Each 6, 7, and 8 grade student will be provided the Computer Science for Innovators and Makers Unit curriculum with it building from year to year.

We believe all students benefit from access to PLTW programs. If awarded a PLTW grant, your school has the flexibility to implement in the way that best meets the needs of your students and school and aligns with grant requirements.

Will all students be required to take at least one course at some point during their years enrolled at your school?

Yes

Please describe in detail your school's plan to drive student enrollment in PLTW programs

Describe how you will engage traditionally underrepresented populations.

The current M.S. and H.S. PLTW Teachers in our district have been selected for their skill to be able to implement the PLTW hands on curriculum approach, but more so their ability to "Care First - Then Teach" philosophy we look for in our teacher. They build into their lesson plan how to individualis instruction for each student. This leads to all students knowing they are valued. The outcome is engaged students.

My Sites

Will students or their families pay a fee to participate in PLTW programs?

No

Please share your vision for PLTW programs in your school, including course offerings, student and teacher engagement, community involvement and the overall impact you expect the programs to have. Please be specific.

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As stated in previous questions, Kenton County Schools wants a K-12 STEM Plan that is structured to be part of the foundation of the school day. Over the next three years the establishment of PLTW Launch, combined with a structured PLTW GTT, and highly successful PLTW H.S. Programs is the goal. We have an Academic Internship Coordinator who provides internships for our 11th and 12th grade PLTW Students. This will grow from the current 50+ Business & Industry Partner to over 100. In addition, our graduates have some of the highest ACT scores in the Commonwealth. This will also continue to grow. A major focus is also our students graduating CCR ready. We will continue to be deliberate in our efforts to make this happen. Our students currently are in the Pre-FAME, FAME, VEX Robotics, etc. Internship partners such as Toyota, Bosch, C-Forward, Duke Energy, St. Elizabeth Hospital, and many others ask for our school every year. This is due to team teaching, implementing PLTW Curriculum intersected by math, science, and English curriculum, along with our 7 area report card with curriculum in critical thinking, work ethic, collaboration, professional writing, projects/proposals, presentations, and content. Please note: Mrs. Christi Jefferds wrote the PLTW Launch Grant for Piner Elementary School. She is currently the principal of Piner until June 30, 2018. On July 1, 2018 she will be the principal of Woodland Middle School. In addition, I, Francis O'Hara, will be overseeing the STEM K-12 initiative for the Kenton County School District.

How do you plan to financially support your PLTW program after the grant period ends?

Perkins Funds, District Funds, Grants, Business & Industry Support, Community Support

How important is the grant you are requesting from PLTW to your team?

Critical

Additional Information

Please feel free to include any additional information regarding your school or its plan for implementing PLTW programs including special initiatives, community & partnerships, implementation plans, etc.

Kenton County Schools has a plan to have K-12 STEM throughout every school in the district (19). The curriculum selected is PLTW Launch, GTT, and Computer Science, Engineering, and Biomedical Sciences. This will be the foundation to bring the all teachers together to create a seamless educational structure for the students to be successful in their future careers. My role is to build this plan/process over the next three years. This goes beyond funding and curriculum. It is to have students, parents, teachers, principals, support staff, administration, community, business & Industry, college/University, and KDE all partner to make this successful.

My Sites

Not a page in myPLTW