ELMHURST DISTRICT205 FOUNDATION
COMMUNITY SUPPORT FOR EDUCATION

THIEMS GRANTS 2017

25 grants totaling- $54,327

York High School-$14,660

Future Ready Classrooms: Creative Learning Experiences $3,656 York
Jill Heaton, Katie Diebold
The expansion of York's Lincoln Lab as a future ready classroom continues with resources that allow students to think critically and collaborate with MakerSpace options. With Breakout EDU, students will be presented with different challenges and puzzles that lead them to problem solve and open a locked box. Media creation tools will add lighting and video recording tools to support green screen videos, creating one permanent green screen booth and a portable one. (2017-28)

Blow Up and Move Inflatable Stand-Up Paddle Boards(partial) $2,450 York
Elizabeth Munn
Students will take a step out of their comfort zone when using these paddleboards. They will be improving balance, stability, a cardiovascular endurance in a new way. These will be used in SUP yoga classes and aquatics classes in addition to after school intramurals. (2017-07)

Data Trends to Success! $2,024 York
Jeff Drach, Mark Golebiowski, Amy Moss, Lauren Yun, Robert Blaus, Kathy VanHoeck
Enables students to conduct experiments in science classes and use graphical tools to analyze, interpret and accurately graph laboratory data. New interfaces for Vernier probes are compatible with students' Chromebooks so lab groups can measure temperature, pressure, heart activity, oxygen level, carbon dioxide and pH levels and many more experiments. (2017-01)

A Taste of Technology $1,425 York
Laurie Foss
This will create a "Tech Playground" for Invite to Teach students allowing them to rotate through stations of various new technology tools. Students will practice and develop lessons using tools including an eBeam Edge, Google Cardboard glasses, and an iPad2 with Apple TV. After using these tools, students may present their innovative classroom uses at a teacher institute day. (2017-19)

Makerspace-Create,Tinker, & Explore $1,300 York
Erica Drumm
This will expand Maker Mondays by offering more STEM related projects. It will create an informal learning environment in the library where students can explore and learn by doing. Adding Sphero 2.0 and Chariot, Silhouette Cameo, Ozobots, Scribbler 3D pens, and other materials will remind students that they are naturally creative and can be active learners and creators. (2017-31)

Book Madness $1,312 York

Erica Drumm
Book Madness invites students to read selected books and vote for their favorites and is styled after March Madness. Students and faculty are chosen to select 64 books from a variety of genres and ability levels. This grant allows the number of participants to grow next year from 175 students, promoting a positive school culture by connecting students and teachers as they support their favorites. (2017-32)

One Stop Shop for Essential Supplies $1,000 York
Jessica Nall, Diane Oliveros, Maria Valerio-Sokolowski
This grant provides additional funding to support a project that began last year with a Thiems Grant. In order to meet the educational needs of all students and to ensure a foundation for future success in life, all students must be prepared for school and ready to engage in learning. This begins with ensuring that the basic need for personal and academic essentials is met in order for all students to feel comfortable, focused and ready to learn. Some students do not have the support or financial means to make necessary purchases, therefore, this funding will provide personal and academic supplies for ELL students to obtain as needed.

Molecular Models For Improved Learning and Connections to NGSS $993 York
Kathy Van Hoeck, Amy Moss, & Lauren Yun
One very important NGSS practice is about modeling, helping students represent something in a physical way. This grant will purchase amino acid starters, phospholipid and membrane transport, and synapse kits. These modeling kits allow students to learn about diffusion and osmosis, how sodium-potassium pumps work, and how glucose is moved across a membrane into the cell. (2017-21)

Students Modeling a Research Topic $500 York
Kathy Van Hoeck & the York High School Smart Team
Students will do a 'deep dive' into the story of one protein by reading the primary research papers that describe its structure and function. They will explore science as a process and work closely with a researcher to understand and model the structure-function relationship of a protein. This grant will allow students to use the computer program 'jmol' to create a 3D model of their protein and present their protein project at a conference of structural biologists. (2017-20)

Middle Schools-$11,532

Developing Alcohol Awareness Among Adolescents $3,000 All 3 Middle Schools
Michael Murphy, Brian Bartoz
This cost effective program provides adolescent learners a simulated experience of vision impairment resulting from the consumption of alcohol and how it affects their ability to walk, complete tasks, and navigate through their environment. Students will see risks posed by alcohol consumption and this first-hand experience will help them make healthy choices. (2017-11)

Build a Computer $2,500.00 Churchville

Debra K. Segiet

These Kano kits will allow students to build their own computer systems, including hardware, operating system, and applications. They will then be able to take coding to a higher level with more advanced language (Java and Python) instead of block coding. By digging deeper, they can tie software back to the computers they program and take their learning to the next level. (2017-03)

Electronic Balances $2,000.00 Churchville

Anthony Petersen

These balances are important for the Next Gen Science Standards where phenomena, inquiry, and experimentation are at the forefront. Adding these additional balances will decrease current group sizes, leading to greater student engagement and creating active scientists and learners who will be eager to experiment and document their findings. (2017-09)

TRX Bands (partial) $1,032 Bryan

Jeremy Thomas, Jaclyn Sutor, Paul Pokryfke, Michelle Solesky, Michelle Kalchik

Adding Total Resistance (TRX) Bands to the PE hallway will create an additional station for students in the fitness center rotations. This station is an addition to the goal-oriented system in PE which allows students to work on their health and fitness without participating in a team sport. The TRX system allows students to exercise using an adjustable amount of their own body weight while using their core to balance, making it a full body workout every time they use them. (2017-06)

Executive Functioning Program (partial) $3, 000 Community/ Middle Schools

Improving Awareness and Implementing Strategies to Help Executive Function Skill & Development in District 205 Students

Patricia Glosner & Teresa Wittmer (REACH PTA Officers)

The executive functions are a set of processes that all have to do with managing oneself and one's resources in order to achieve a goal. Students can struggle with academics in school because these skills are not developed and impact organizational behavior and study skills and habits. The Foundation funds the Study Skill Academies in elementary and middle schools as a platform to provide intervention with students who struggle in this area, but those resources are limited and the subject continues to be of importance. This funding will help provide parent presentations on Executive Function. This may lead to collaboration between relevant parties that could bring more opportunities for structured programs and assistance in this area to District 205 students down the road.

Early Childhood and Elementary Schools-$28,135

Freedom of Expression $180.00 Madison

Bridget McDonald

The purchase of twelve Dano AppCrayon Stylus for Kids provides an age appropriate tool for young learners to use with iPads as they develop writing and drawing skills. The tool is chunky and easy to hold, engaging, and provides an electronic method in which to assess and share progress. (2017-16)

MakerSpace Momentum: Cultivating 21st Century **All Elementary Schools**
Real World Learning in our Students & Library MakerSpaces: Full STEAM Ahead! $12,000
Donna Dewar, Lauren Blanford, Mary Greska, Margaret Lewis, Karla Talbot, Emily Walton, Caroline Weaver, and Lisa Wright
This grant provides funding of $1500 for each elementary school to purchase materials that will establish or extend MakeSpace programs in the libraries. MakerSpaces provide a way for students to garner further understanding of the curriculum through hands -on applications. These activities develop STEM skills and help to inspire critical thinking, collaboration, communication and creativity-the "four Cs" of 21st century learning. A variety of materials and kits for robotics, circuitry and building will be included. (2017-25), (2017-05)

Becoming 21st Century Learners: Incorporating **Fischer**
Google Technology into the Common Core $5000
Tamara Kohout, Stephanie DiPaolo, Whitney Brown, Megan O'Doherty
Students in grades 3-5 who have access to 1:1 Chromebooks during the day will be able to integrate Google Expedition Kits as an engaging way to deliver curriculum. These kits provide endless opportunities that include virtual tours/field trips, then incorporate educational and visual learning tools that require students to organize, interpret and analyze the information they are seeing and studying. Paired with the brain's capacity for images, this type of blended learning is engaging and helps students better understand and retain information. (2017-29)

Exemplary Problem Solving **$2,068 (partial)** **Jefferson**
Katie Zabinski
This grant will provide all teachers access to a multi-grade level library of differentiated Math Exemplars, helping them provide problem solving tasks that are aligned to the Common Core State Standards and Math Practices. This grant will pilot an online subscription of *Problem Solving for the 21st Century, K-8 Built for the Common Core* for use as an additional math resource. (2017-27)

Standing Desks **$3,000 (partial)** **Edison**
James Pluskota
Based upon positive experiences for students and staff, this school staff is committed to having standing desk options in more classrooms in order to improve student engagement and focus. These desks offer a unique Swinging Foot pendulum that allows students to disburse energy without disturbing the learning of others. (2017-08)

Wobble Chairs **$1,544.00** **Edison**
James Pluskota
Wobble chairs have been placed in the Model Classrooms and used at several schools across the district.

They are a good option for active students that need some motion to stay engaged,focused and productive. These stools are also light and movable for multi purpose seating. This grant will provide twenty Wobble Chairs for use in multiple classrooms. (2017-15)

Wiggle While You Work $1,327.00 Hawthorne
Kelly Iturbide
Meeting students' sensory needs allows them to be more engaged in classroom activities. Alternate seating options are necessary for some students to be less disruptive and more productive learners. This grant will provide bouncy bands, balance cushions, wobble chairs, and soft cushions for four sections of second grade. (2017-23)

Read the Day Away with Playaways $1,000 (partial) Emerson
Lauren Blanford, Tammy Dospoy
The use of audiobooks can better engage struggling readers and lead to improvement in comprehension and fluency. Intermediate level (3rd-5th) Chapter Playaway Audio Books will be purchased for the library as additional resources for Readers Workshop. (2017-10)

Writing on the Walls $984.00 Hawthorne
Kelly Iturbide
Future ready learning requires multipurpose spaces that can be used for learning, communication and collaboration. Maximizing classroom space and creating learning hubs can easily be accomplished with the help of dry erase paint. This grant will provide materials for second grade teachers (and maybe more) to create dry erase writing surfaces in their classrooms. (2017-24)

Chairs for Learning $872.00 Lincoln
Susan Grote
Conventional seating does not always meet the needs of all students. Zuma Rockers offer an alternate seating option for students that require some movement to help them focus and stay engaged in learning. Seven Zuma rockers will be purchased for this third grade classroom. (2017-14)

Video Modeling: Helping District 205 Students Demonstrate Verbal and Nonverbal Skills for Social & Communication Success $160.00 Hawthorne
Kim Nissen, Barb Bosslet
The Foundation has supported video modeling through past grants, and the strong favorable results defend expanding and piloting this program to other schools. Both general and special education students that demonstrate a deficit in communication or socialization will be given instruction through videos. This method is engaging, uses familiar and realistic scenarios, and offers the ability to freeze action for discussion. Two online subscriptions containing speech and social skills videos will be made available for use at this school. (2017-26)