

**DARE EDUCATION FOUNDATION
SUMMARY OF GRANTS AWARDED
UPDATED JUNE 2017**

TOTAL TO DATE \$215,486.05

DISTRICT-WIDE OR MULTI-SCHOOL \$64,251.55

Author Visit with Alan Gratz (\$1,000), 2016-2017 – Susan Sawin

Matching funds provided through a generous grant from the Outer Banks Community Foundation

An award-winning author of Young Adult books, Alan Gratz has written 14 novels and 8 pieces of short fiction. His writing appeals to 3rd through 12th grade reading levels, and two are included on the 2016-2017 NC Battle of the Books elementary and middle-school reading lists.

Mr. Gratz will visit every school in the county over one week and conduct presentations encouraging reading, writing, creativity, independent thinking and initiative, followed by Q&A sessions with the students. Students will also have the opportunity to meet Mr Gratz and have him sign their books at a welcome reception at a local eatery.

China Partnership (\$1,894.55), 2016-2017 - Steve Hanf

Matching funds provided through a generous grant from the Outer Banks Community Foundation

Twenty-two Chinese students and three teachers from Meicun Senior High School in Wuxi, China will be hosted by students from DCS' high-schools for a 3-day visit to build relationships and experience global connections. Host families will provide accommodations for the visitors.

During the visit, the US and Chinese students and teachers participating in the partnership will attend classes and tour their schools together, go on educational outings to local places of interest, and have time to learn about their respective countries from one another. A facilitated group discussion will be held at the end of the visit to reinforce the cultural exchange that has taken place.

College Experience Trip (\$3,000), 2016-2017 – Ralph Cleaver

Matching funds provided through a generous grant from the Outer Banks Community Foundation

The junior year of high-school is a critical year for determining which universities you plan to apply to. Further, finding the institution that best suits a student's academic and social needs is a determining factor in the level of success that student will experience in college.

This trip will allow juniors in the AVID program from Manteo High School and First Flight High School to visit 6 NC colleges so that they can make better informed decisions about their next steps after high-school. A range of schools (technical, public, private) will be included. In addition to experiencing the campus and observing classes, students will hear from admissions officers about the requirements for getting into their respective schools. Teachers tell us that this is often a motivating factor for students to focus on the rest of their high-school careers and push themselves to make their college dreams a reality.

Explorations in Our Schoolyard (\$2,000), 2016-2017 – Rhana Paris

Matching funds provided through a generous grant from the Outer Banks Community Foundation

This project will help elementary school teachers from any DCS' elementary schools that are interested to learn about the animals, plants and ecosystems of their school yard so those teachers can then use their school yard to teach their students. Examples of activities and projects, suitable for different grade levels and/or cross-curricular work, will be provided so that teachers can incorporate what they have learned into their own lesson plans.

Tutoring Kits for Mano al Hermano's Family Literacy Program (\$2,000), 2016-2017 – Jessica Loose

Matching funds provided through a generous grant from the Outer Banks Community Foundation

Mano al Hermano's Family Literacy Program is serving approximately 100 English Learners in MES, NHES, and FFES during the 2016-2017 school year. They also continue to serve students now in middle school. They started with one volunteer four years ago and now enjoy the support of 40 volunteer tutors. The program has proven to be highly successful; in fact, they have a waiting list of over 20 students. As a direct result of the one hour weekly tutoring session offered to each student, teachers are now seeing improved literacy skills and study habits and more consistent homework completion. Parents are becoming more involved in their children's education, at home and in the school setting.

Mano al Hermano is providing bi-monthly training to the tutors, but lacked the resources to provide their growing cadre of tutors with the instructional materials they needed to be more successful. This grant will allow them to create a resource library and procure additional instructional materials, such as task cards, so that tutors have ready access.

The Sky's Not the Limit (\$1,350), 2015-2016 – NC Aquarium on Roanoke Island, Rhana Paris

This is a program designed to teach all DCS' 6th graders about the "players" in the night sky and to encourage an awareness of light pollution issues.

Creation of a DCS ESL Handbook (\$2,000), 2015-2016 – Jessica Loose

Jessica Loose had been the ESL Lead for DCS' for many years when she applied for this grant. She is retiring at the end of this school year. She proposed bringing DCS' ESL staff together to collaborate in the creation of a comprehensive, useful and easily

accessible ESL Handbook for current and future teachers. This project would also help answer questions in her absence, in order to preserve continuity for the district. She wrote a proposal to NCCAT for the project and it was accepted.

This grant covered substitute teachers to allow the team to work at NCCAT for the week. An ESL teacher from MES, NHES and MHS attended. Further, a Pre-K teacher that is also on the Pre-K to Kindergarten Transition Team attended, as did Kay Minis, the Family Literacy Coordinator for Mano al Hermano.

Exploring Careers in STEM Fields (\$190), 2014-2015 – Ginger Candelora, Mano al Hermano

Children participating in the Mano al Hermano Family Literacy program went on a Field Trip to CSI to tour the facilities, meet Latino scientists, and take part in do some hands-on science education. The emphasis was on the children being encouraged to aspire to careers in various STEM fields. Some Dare County Schools' teachers also attended with the group.

3rd Annual Dare to Share Technology Conference (\$2,000), 2013-2014 – Nancy Griffin

All DCS teachers were to attend this 2-day event which featured 2 keynote speakers and many, various breakout sessions to help teachers become more comfortable with utilizing technology in the classroom and to help prepare them for next year's rollout of the 1-to-1 laptop computer initiative for grades 6-12.

Reading by the "Fire"-side (\$4,000), 2013-2014 – Kristin Earls, NHES and Pam Gray, KHES

During the 2013-2014 school year, the Read to Achieve mandate was established in NC. This required all students to be reading at or above grade level by the end of 3rd grade, or students would be required to attend a Summer Reading Camp. The teachers will use Kindle Fires to have reading modeled for struggling students in Kindergarten and First Grade. They will also be able to use the video capabilities on these newer models to allow students to record themselves reading. The students will be able to use these for self-reflection, and they will also share them between the two schools so students can read to other students. Also, the devices will be used for the 2014 Summer Reading Camp.

1st Annual DCS' STEM Day Celebration (\$2,000), 2013-2014 – Jennie Rook

Students from all three DCS high-schools took part in this day of learning that spanned from the Coastal Studies Institute to the College of the Albemarle. There was a STEM job fair, discussions with scientists about what they do during the course of the day, various break-out sessions that students could choose from on STEM related topics and a keynote speech by an expert in mobile and multi-screen website and application design strategy and user experience.

Minecraft Collaborative (\$6,000 per year for 3 years), 2012-2013 – Cathy Evanoff, NHES; Landra Cartwright, FFMS; and Mike Phelan, MHS

This was the first multi-year grant that Dare Education Foundation ever awarded! The gamification of education is a new trend and is being explored through utilizing programs like Minecraft to teach physics, biology, math, art and more. All three schools worked together in a shared universe. For the elementary students, this was an after-school club and the students had to maintain good grades and positive behaviors in order to participate. The middle-school and high-school students participated during class time.

The students built historical landmarks and had planned to also work with students from Pender County. The high-school students built and maintained the servers, acted as mentors and created challenges for the younger students. At the end of the year, all of the students that had been working together virtually all year met for an in-person Minecraft playing session.

Soo Bae Residency (\$2,000), 2010-2011 – Dare County Arts Council, Laura Martier
Due in no small part to previous grants from DEF, eighty-three students are now enrolled in a strings program. This grant to the Dare County Arts Council will bring all the students together from 6 schools for an arts in education residency with world renowned award winning cellist Soo Bae. The residency will prepare the student orchestra to perform a free public concert at First Flight High School. DEF funds in the amount of \$2000.00 will support the project that is a partnership between Outer Banks Patrons of the Arts and Dare Council Arts Council.

The Dirt on Soils (\$1,230), 2010-2011 – NC Aquarium on Roanoke Island, R. Paris
This grant was awarded to provide the opportunity for 396 third grade students county-wide to learn about soils from a visiting scientist from the NC Aquarium on Roanoke Island. The lessons will be hands-on outdoor activities where students take on the roll of environmental scientists to report back to the principal about what is going on with the plants and animals in the schoolyard. 21st Century Skills developed include critical thinking, problem-solving, communication and many more in an innovative, relevant learning environment.

3rd Graders Reach for the Stars (\$1,240), 2010-2011 - Chaveleh Wetzel

This grant will expand the successful pilot project that DEF funded in 09-10 that brought the UNC Planetarium to FFES for two sessions with 3rd grade students. With this expansion, Chaveleh will share her resource book with fellow third grade teachers at KHES, NHES and MES and all 3rd grade students at these schools will have the opportunity to fully view the earth, moon and sun relationship following their curriculum studies in this area. 21st Century Learning includes hands-on contextual learning and critical thinking as they are asked to sort through what they know about constellations. They will also practice critical thinking by writing letters to project staff reflecting on the experience. DEF is funding this to expand an already successful project and to expose other schools to an inexpensive, creative and entertaining way to bring a planetarium to Dare County Schools.

Using Kindles to Support Struggling Readers (\$2,000), 2010-2011 – Jessica Loose and Mora Santana. Grant funds will be used to purchase 10 Kindles and books/audio for use on the Kindles. The Kindles will be used as a tool to help struggling readers (ESL/EC/Title 1) develop reading skills and to support the READ 180 program at FFMS. The innovative project is designed to increase interest in reading through use of the technology. Using the Kindles is expected to build reading skills. An evaluation comparing baseline reading scores and post project implementation scores will reveal whether or not this innovative strategy produces intended results.

Outer Banks Totem Experience (\$1,000), 2009-2010 – Kaye Lyerly
Grant funds were awarded to the Dare Master Gardener Volunteer Association in support of their efforts to involve students in the installation of the “Outer Banks Totem” in the Outer Banks Arboretum and Teaching Garden. This intergenerational experience is designed to allow students from all First Flight schools to experience history in the making.

Participating students, numbering in the hundreds, are to participate in the finishing touches and installation of this permanent sculpture that depicts the plants and animals indigenous to the Outer Banks. World renowned sculpture artists will facilitate stations where students learn the art and skill of sculpture design. Students will also participate in working with limestone to create the base designed to look like a sand dune. In addition to completing follow-up activities regarding the unique environment and animals of the Outer Banks depicted in the sculpture, students will work with a civic-minded group of adult volunteers from our community and develop and appreciation for civic engagement.

21st Century Author in Residence (\$2,000), 2008-2009 - Shuana Leggat
Two-thousand dollars was awarded to pay half of the stipend to bring Brandon Mull, NY Times best-selling youth fiction author, to Dare County as an artist in residence to spend a full day in every elementary school in the district. All 3-5 grade students have worked with Mull’s book titled Fablehaven. Students learn 21st Century Skills by reading Mull’s books as the main characters display critical thinking and problem solving skills, among others. Mr. Mull will spend half of his day speaking to 3-5 grade students about reading, imagination and writing. He has also been asked to discuss 21st Century Skill concepts explored in his books. During the 2nd half of the day, Brandon will conduct writer’s workshops for students who will benefit most from the personal encouragement – either those who show potential to evolve from a level III to a level IV on the NC writing test, or rising third graders preparing for the test.

NXT Robotics (\$2,000), 2008-2009 – Bill Evans
Middle School students district-wide will develop 21st Century Skills such as critical thinking, problem solving and communication as they work collaboratively to solve eight separate real world Naval problems using NXT Lego Kits and Robolab software. The kits and software will be shared among CHSS, MMS and FFMS and will spend 9 weeks at each school. DEF funds will be used to purchase NXT Kits, Robolab Software, and other miscellaneous supplies.

CPR/AED Training for Students (\$1,897), 2008-2009 – Mandy McBride

Awarded to Mandy McBride at FFHS, this grant provided funds to purchase materials, supplies, and equipment needed to train and certify high school students in CPR/AED life saving skills. The equipment will be inventoried at FFHS and shared/rotated with MHS and CHHS.

Jazz Bands (\$2,000), 2007-2008 – Gary Clark

DEF funded this grant to enhance the opportunities of students in instrumental music programs by providing them with instruments that are not currently available. Two-thousand dollars (\$2,000.00) was awarded for 2 upright string bass instruments that will add to the jazz band instrumentation and orchestra string programs currently conducted in 3 Dare County schools. The basses will fill a void in the instrumentation of the jazz band programs currently being conducted at FFMS, MMS and MHS and will add to the on-going string program at FFMS. There are currently no instruments like these in the school inventories.

Empowering Parents (\$2,000), 2007-2008 – Cindy Beacham

Third grade is a big year for the introduction, development and practice of core academic skills such as study and test taking skills. In third grade, students begin earning grades for their work and are preparing to take their first EOG tests. A \$2000 grant from DEF will help provide a weekly parent workshop to help parents help their children make a smooth transition and have a positive experience as they learn these core academic skills that will provide the foundation for many successes. Workshop topics will include learning styles, curriculum areas, student enrichment, tests taking, EOG prep, etc.

Traditional Jazz Bands (\$1,450), 2006-2007 – Gary Clark

This grant will provide equipment (banjos) to expand the Traditional Jazz Band Program from FFHS, to also include FFMS and MHS. The Traditional Jazz Band program provides an opportunity for Dare County students to learn and experience a wider variety of band music than is currently in the regular curriculum. The banjos being purchased are not normally found in high school band equipment inventories. The availability of these instruments will make the music produced more interesting and entice more students to participate in the program. One banjo will be used at FFHS and FFMS. The second banjo will be used at MHS.

District-Wide Literary Arts Magazine (\$2,000), 2006-2007– Diana Miller

Sponsored by East Carolina Bank

This grant will help publish the 1st Annual DCS district –wide literary arts magazine. The publication will be coffee table quality, displaying student work from all high schools in the district.

Academic Achievement for English Language Learners (\$2,000), 2006-2007 - Jessica Loose

Sponsored by RBC Centura

Jessica Loose was the Lead ESL Teacher for DCS when she applied. She applied on behalf of all Dare County Schools to purchase curriculum and instructional materials

(Sheltered Instruction Observation Protocol/SIOP) that will be used to train and better equip school administrators and teachers to improve the academic success of ESL students. Teachers will be introduced to specific lesson planning, delivery, and assessment techniques to be used in teaching content area subjects while also addressing the English language development objectives established by the NC Dept of Public Instruction for use in all public schools.

Once trained, teachers will be better equipped to teach ESL students who have not yet developed adequate English language skills. The curriculum applies to teachers in all grade levels K-12, and across all academic subject areas. The training will be piloted in Manteo Schools this year. Once implemented there, the project will expand county-wide to reach all administrators and teachers in Dare County Schools.

Wright Centennial Festival Ensemble (\$2,000), 2003-3004 - Sam Ballard and Becki Rea

CAPE HATTERAS ELEMENTARY SCHOOL \$3,968

What a Character! (\$1,928), 2010-2011 – Cathy Copes

Grant funds will be used to purchase curriculum and equipment for a character education initiative that will culminate in a two-day Social Studies Festival in the spring of 2011. The theme of the festival is character education with an emphasis on a community collaboration of “This I Believe” essays. These opportunities will accentuate the 21st Century Skills of global awareness, and civic literacy, as well as strategically incorporate the life skills of ethics, accountability, adaptability, personal productivity, personal responsibility, self-direction, and social responsibility. Monthly grade-level activities will culminate in a display of the particular character trait or traits they have been targeting.

During this pre-festival time, each student will write their own “This I Believe” essay using the template from the This I Believe website. Once the essays have been completed, older students (4th and 5th grades) will film students from different grades reading their essays.

CHES will invite several “Characters of Hatteras Island” to complete and personally share their “This I Believe” essay with our students at the festival. Web cams and skype technology purchased through the grant will allow CHES to share essays with those off island.

Little Skeeter Recycled Theater (\$1,500), 2009-2010– Molly Jo Barnes

Grant funds will be used to purchase equipment needed to begin a theater program at CHES. Students will learn and practice all 21st Century Skills as they collaborate to deliver theatrical productions using recycled materials for costumes and stage props. The theater will involve 3rd-5th grade students, in addition to some assistance from high school students. The first play is Rabbit Tales and the performance is scheduled for December 2009.

Architecture In Art (\$540), 2004-2005 - Diane Brown and Brenda Smith

Thanks to a grant from the Dare Education Foundation, some passionate teachers, and one of our local story tellers, the entire 5th grade at Cape Hatteras Elementary School began their journey to learn more about Architecture in Art. The goal of “Architecture in Art” was to help students hone their technology skills while learning elements of art, art history, geometry, and other math skills such as matching, sizes, shapes, and measurement.

DEF grant funds purchased the Fun With Architecture software for 5th grade students. By using this software, the students honed their technology skills while learning art elements, art history, geometry, and other math skills such as matching, size, shapes, and measurement. The first step in the Architecture In Art project was for the entire CHES 5th grade to take a guided tour of Hatteras Island, learning about the architectural design of local homes and buildings, while also learning about the history of their community. The tour guide was Hatteras’ own Danny Couch who spent the morning teaching the students about the history and function of local architectural design while weaving in stories about some of the first to build on Hatteras Island.

Following the field trip, the students were exposed to the Fun With Architecture software in their Art class. Doing so built upon the elements of Architecture In Art that they learned on their tour...not to mention the history lesson and sense of pride they all enjoyed! The project will be an annual adventure for CHES 5th graders.

FIRST FLIGHT ELEMENTARY SCHOOL \$16,860

Flipping with ICT Literacy and Canvas (\$1,909), 2015-2016 – Christie Powers

By providing netbooks at the elementary school level, the 5th grade students will begin becoming more familiar with flipped classroom strategies, easing the transition to middle school. The students will also be using the netbooks to conduct online research and practice analyzing online resources for credibility; engage in virtual field trips and observe informative and engaging speakers. Further, the participating students and teachers will create resources in Canvas, becoming early adopters and trainers for the new online platform that all DCS teachers and parents must use beginning in the ’16-’17SY.

Bluebirds in Our Schoolyard (\$1,300), 2014-2015 – Rhana Paris, NC Aquariums

2nd grade students and teachers from FFES will help set out a series of bluebird boxes within their schoolyard and study, throughout the year, how these birds use the schoolyard, using equipment provided by the grant to enhance math, language arts and science skills.

The Walking Classroom (\$2,000 per year for 2 years), 2012-2013 – Chavaleh Wetzel

A Health Innovation Challenge award winner, the Walking Classroom is an evidenced-based, teacher-initiated, in-school fitness and obesity intervention that improves health literacy and builds core content knowledge while addressing different learning styles.

Students listen to approximately 20-minute long pre-recorded introductory lessons on mp3 players while walking. Then, when students go back into the classroom, the teachers build on the introductory lesson. These grant funds purchased one class set of the devices for 4th graders. Then, the Walking Classroom released their 5th grade based curriculum for the '14-'15SY, so with their Year 2 funds, FFES purchased a 5th grade class set and will use this program's model to develop curriculum-based podcasts for lower grade students at FFES.

iPads for Innovation (\$2,000), 2010-2011 – Margie Parker

Grant funds will be used to help FFES purchase iPads. Thirty iPads will be purchased for use by the 5th graders to prepare them for life in a technology-driven environment. Using iPad technology will enhance students' ability to communicate, think critically, problem-solve, and collaborate.

One School, One Book (\$2,000), 2010-2011 – Terry Wingenroth

Grant funds will help FFES implement a project similar to DEF's recent *This I Believe* Community Read Initiative. A book will be selected and provided to every FFES family, including staff. All will read the book over a designated time period. Activities will follow like daily questions from the principal about the book and student group discussions. 21st Century Skill development includes collaboration, personal responsibility, communication skills, and critical thinking. Web-based resources found at www.readtothem.org will also be used.

Raising a Reader (\$2,000), 2010-2011 – Carla Heppert

This grant was approved in the amount of \$2000.00 to support a pilot of the Raising a Reader program for More at Four students at FFES. These children are considered at-risk and are chosen on the basis of their socioeconomics and/or the quality of their previous pre-K child care experiences.

The overall goal of the Raising A Reader program is to build literacy knowledge among children and families. Raising A Reader's weekly book rotation will encourage families to read at home daily. Eighteen children will participate in the pilot and DEF funds will be used to purchase the books and materials for students to develop 21st Century Literacy Skills.

Bring Us the Stars! (\$656), 2009-2010 – Chavaleh Wetzel

This grant will help bring the UNC Planetarium to FFES for two sessions with 3rd grade students. Students will have the opportunity to fully view the earth, moon and sun relationship following their curriculum studies in this area. 21st Century Learning includes hands-on contextual learning and critical thinking as they are asked to sort through what they know about constellations and the myths they will dispel during the show. They will also practice critical thinking by writing letters to project staff reflecting on the experience.

Rooted In Learning (\$2,000), 2008-2009 - Penny Pugh

A team of teachers from FFES applied for this grant to enhance the FFES science and social studies curriculum by developing an outdoor living classroom rife with hands-on experiences concerning the NC landscape, specifically plants and seeds from across the state and examples of our natural resources. Every FFES student will benefit as they develop 21st Century Skills. While the cooperative nature of the program addresses Global Awareness Skills, the opportunity to study North Carolina resources in nature addresses the Economic Literacy Skill. Health Literacy will be practiced by the impact made by environmental conditions on the project. Civic Literacy Skills will improve as civic responsibility increases across the grade levels when students care for and maintain the classroom.

Sun, Soil, Skeletons, and Seeds (\$995), 2007-2008 – Chavaleh Wetzel

Sixty-five third graders at FFES will experience 21st Century Science Education in 2007-2008 as a result of this DEF grant. Science concepts and skills in four areas will be taught to students using hands-on activities. For example, students will learn about the solar system by constructing an earth and moon model. Students will learn about skeletons by dissecting an owl pellet. Creating worm boxes will teach about soil and students will even grow a classroom garden to learn about seeds and plant growth. This grant is planting seeds of its own. According to the project’s director, FFES will be able to continue this 21st Century Science education for years to come now that they have been granted seed money to get it started.

KITTY HAWK ELEMENTARY SCHOOL \$9,840

Escape Room (\$460), 2016-2017 – Ellen Bryson

Matching funds provided through a generous grant from the Outer Banks Community Foundation

Providing opportunities for team-building, collaboration, critical thinking, problem-solving and learning to work under timed conditions, this grant will purchase escape room kits that can be used in the Media Center. All students will learn from their peers and practice their communication, diplomacy and leadership skills in these activities. In addition to teaching the aforementioned life skills, the themes of the different kits will also be aligned across curricular subject areas, so kids may be utilizing math skills or geography skills, for example, while working on analyzing the clues. Kids have so much fun working on these scenarios that they don’t even know they are learning! Eventually, students will be tasked with creating their own scenarios, and they could even get published! Also, the kits can easily be shared with other schools and/or used for professional development for the teachers.

Energizing OBX (\$2,000), 2015-2016 – Jason Hathcock, Dominion Power

Matching funds provided through a generous grant from the Outer Banks Community Foundation

On the greenhouse and school entryway at KHES, volunteers from Dominion Power, KHES PTA, and local electricians and contractors will install solar panels, battery storage

and an online monitoring system for the energy generation data to be collected and used for student learning on the greenhouse and school entryway at KHES. The project prep work that is done for this project will also allow for additional forms of renewable energy sources to be added at a later time for future learning opportunities.

Window to the World Distance Learning Room (\$2,000), 2012-2013 – PTA, Abby Hewitt

With a giant TV, an internet connection and a Roku, large groups of KHES students will be able to interact with various distance-learning possibilities. Teachers can use the room for flipped learning activities, as well as virtual field trips and other learning-based applications.

Learning with the Dolphins (\$325 per year for 3 years), 2012-2013 – Linda Hutton, Richard Shope and Traci Potter

Third-grade students will have multiple opportunities each year to engage in Skype sessions with trainers and scientists at the Dolphin Research Center in Grassy Key, FL. Students will have an opportunity to learn about dolphin anatomy, habitats, and behaviors. The information students are learning during these sessions is also being incorporated into cross-curricular activities and assignments, such as in Language Arts. Further, this project will also have the students taking advantage of a past DEF grant for the Window to the World Distance-Learning Classroom.

Superstars Math Lab Collaborative (\$2,000), 2012-2013 – PTA, Stephanie Huband

Children are able to analyze complex, multi-step mathematical problems more efficiently when utilizing manipulatives such as blocks, cubes, dice, etc. Further, utilizing manipulatives helps students to articulate and defend their thought process to others. In conjunction with KHES PTA funds, these DEF funds will help purchase Teach and Go carts with white boards and sets of various manipulatives. The children will then use these in small groups to learn math concepts and communication skills, as well as having an opportunity to learn how to provide helpful, respectful suggestions, and conversely, receive constructive criticism graciously.

Connecting Communities (\$575), 2010-2011 – Diane Childress

Grant funds will purchase flip cameras to help students learn about communities while practicing 21st Century Skills including technology, collaboration, communication, critical thinking and research. Using the flip cameras and the web, students will connect with three different schools in three different types of communities (suburban, urban, rural), share information using a questionnaire, connect with them via skype, then post info about the project on the KHES website.

D is for Dare (\$270), 2009-2010 – DiAnn Anderson

Grant funds will help KHES 4th graders publish an ABC book chronicling the history and geography of Dare County.

Students will create the text by investigating a topic pertaining to a particular letter of the alphabet. The book will be illustrated by original digital pictures or scenes scanned into a

computer. Shutterfly will be used to print the book. 21st Century Skill development includes working as a class to publish the book, personal responsibility by doing their part, and technology by using the cameras, scanners, and computers. Civic literacy will be practiced as students present the books to various community groups with pride about their community.

Small Machines (\$560), 2004-2005 – Doug Potter

A grant from the Dare Education Foundation provided funds for the team to purchase Small Machines Kits to allow all 5th grade science students more hands-on learning opportunities. The goal of Mr. Potter’s project was to teach science with more hands-on activities. The project was especially important due to impending changes to the science curriculum. The project helped prepare 5th graders to begin taking Science EOG’s in the spring of 2006.

“I applied for this grant on behalf of the 5th Grade Science Team to enhance the delivery of the science curriculum and to prepare students for the first ever 5th Grade Science End of Grade test which will take place in 2006,” said Doug Potter, a member of the KHES 5th Grade Science Team.

Kindergarten Life Science Project, (\$1,000), 2003-2004 – Traci Potter

MANTEO ELEMENTARY SCHOOL \$17,593

Work SMARTer, Not Harder (\$2,000), 2016-2017 – Cindy Dortch

Matching funds provided through a generous grant from the Outer Banks Community Foundation

This grant will allow a mobile SMART Board to be utilized by the five 3rd grade classrooms at MES. Because the interactive display board is on a rolling cart, each 3rd grade classroom will have a SMART week where they will benefit from engaging, hands-on and differentiated cross-curricular lessons before the board is rotated to the next classroom. The teachers are able to benefit from the experience of a fellow teacher with 11+ years using SMART technology in the classroom, and they are also able to plan sessions related to the SMART Board together, so that they can most efficiently build up a year’s worth of lesson plans that incorporate the board.

Professional Development in Technology with Kyte Learning (\$1,500), 2016-2017 – Lisa Colvin and Carol Dunn

Matching funds provided through a generous grant from the Outer Banks Community Foundation

The primary purpose of this project is to increase technological literacy for all teachers, which will directly impact the exposure to technology for all students at Manteo Elementary School. Secondly, it will positively impact the effectiveness of teaching strategies, increasing student understanding in all subjects in which the teachers learn to utilize their new technology skills. Additionally, the skills in technology will increase the communication between MES, our families, and the surrounding community.

This grant for a one-year license to utilize the Kyte learning platform will allow MES teachers to learn at their own pace and to have an individualized plan for professional development that is based on each teacher's current skill levels and aligned to their classroom needs.

iPads for Daily Five (\$1,976), 2015-2016 – Charlotte Hester

The iPad Minis will be used in the launching of the Daily 5 program, a framework for structuring and fostering literacy time during English Language Arts classes. With the Daily 5, students are actively engaged in five choices of small group activities that help develop habits of reading, writing and working independently. Ms. Hester will also use them to differentiate instruction in her math and science classes.

School of Readers (\$1,787), 2014-2015 – Mollee Holloman & Helen Corbett

Student activities will focus on working with peers, using technology, and sharing information and opinions. Helen Corbett's rising 5th graders will serve as the "Media Mentors" to provide peer guidance to library patrons. They will spend time in the media center answering student questions and circulating books, as well as be the first producers of promotional, digital content and become models in using the technology. For example, they will write book reviews and publish them on the media center blog, create QR Codes and Augmented Reality auras to advertise books and genres, and produce their own book trailers to be shared with our school. Once the Media Mentors have been established, they will start training their peers. Through these activities, student will develop more confidence and knowledge about their reading identity.

iPad Tools - Enhancing Early Literacy (\$480), 2014-2015 – Pat Baker

Through the use of durable styluses, head phone splitters and the I Write Words app and other existing iPad apps, primary-age students will increase their writing response and collaboration skills in reading and math.

Responsive Classroom (\$2,000), 2014-2015 – Lisa Colvin

The project intends to train teachers and students the use of Responsive Classroom practices, with the goal of increased 21st Century skills of communication, collaboration, problem solving, critical thinking and social skills, subsequently increasing student achievement throughout the school. More information about this model which is used nationwide can be found here: <https://www.responsiveclassroom.org/about/>

Bridge to Summer Reading (\$2,000), 2012-2013 – Mary Anne Wetzel

There is a phenomenon in academic skills – called the "summer slide" - whereby they atrophy during the non-instructional summer months. In research studies, it has been noted that low-income and English as Second Language learners lose the most reading skills over the summer. However, a researcher at Harvard suggested that using the "ABCs of Improved Reading": **A**ccess to books, **B**ooks that match readers' ability level and interests, and **C**omprehension which includes guidance from an adult, can make a summer reading program successful. In conjunction with Manteo Rotary funds, these DEF funds were used to purchase books that could be given to students in grades 2-4 for reading over the summer. Additionally, the funds were used to create and provide a CD

to each child with teacher instructions and guidance on applying comprehension strategies in fiction and research strategies for non-fiction and informational texts.

Pirates of North Carolina (\$500), 2009-2010 – Marcia Jenkins

MES 2nd -5th graders will enjoy a visit from “Blackbeard” that will ignite them with excitement as they begin their own research into the “Golden Age of Piracy.” The visit from “Blackbeard” will bring to life the history of the era, the significance that pirates had on the economy, and the culture of that era. Following the visit, students will embark on a research project where they practice personal responsibility to produce a report based on their own research. Students will develop presentation skills when they present their findings to the class.

Building Academic Vocabulary (\$2,000), 2006-2007 – Jodie Michum

The Building Academic Vocabulary program will reach all 600 students at MES. The program is research-based and proven to increase effective vocabulary instruction, teach vocabulary terms and concepts that are critical to students’ success across curricular areas, and implement learning strategies that will foster an increase in academic achievement for students from all socioeconomic, cultural, and ethnic groups represented at MES. Teachers will be introduced to the initiative through three 30-minute DVD lessons designed to help them understand what to do about students who lack core background knowledge and experiences that would help them be more successful in school. This program is based on Robert J. Marzano's book, *Building Background Knowledge for Academic Achievement: Research on What Works in Schools* (Alexandria, VA: Association for Supervision and Curriculum Development, 2004).

The book introduces and models research-based strategies for overcoming the academic deficiencies that many students from diverse backgrounds come to school with. After completing the DVD preview study, teachers will participate in a Professional Learning Community based on Marzano's book, with the purpose of practicing strategies in the classroom as they are learned, and becoming adept with them as they are discovered and developed within a collaborative community setting.

Mosaic Making (\$677), 2005-2006 – Mary Beth LaRose

Sponsored by the Bank of Currituck

Mosaics are a visual record of world history and expression. They were and still are made on walls, buildings, furniture and pottery. Through the project, all 3rd -5th graders at MES learned the history and process of the ancient art form of mosaic making and create mosaics with inspiration from cultures around the world. Students will study mosaics from Asia, China, Mexico, Spain, and Rome, while learning about the history and culture of these regions. The project is also designed to reinforce Math skills as students practiced skills such as estimation, pattern making, symmetry and geometry – all things they must do to make all the colorful tiles fit together to create their mosaics. To bring the project full circle, 5th graders will make 4X6 mosaic mural of the Wright Flight symbol to be put on permanent display. The mural will be used each year to display 5th grade “Wright Flight” airplanes as part of their participation in the Wright Flight

program. Ms. LaRose is creating a notebook documenting the “how to” of the project and plans to share it so that other schools can duplicate the project.

Fundations (\$2,000), 2005-2006 – Peggy Privott

Sponsored by the East Carolina Bank

This grant enabled all elementary ESL teachers to purchase Fundations Curriculum Kits to work in small groups with ESL students to reinforce the reading and writing instruction that they receive in the regular classroom. The grant is helping local ESL students keep pace with the new reading and writing curriculum being used among all Dare County K-2 students.

Enhanced Music Education (\$673), 2003-2004 – Tammy Martin

NAGS HEAD ELEMENTARY SCHOOL \$9,992

Let the Printer be the Lesson (\$1,992), 2014-2015 – Cathy Evanoff

3D Printing can empower us to change the way we create and learn, allowing any skill level to become producers, inventors, and artists. The 4th and 5th grade students will be introduced to Tinkercad (an easy-to-use tool for creating digital designs that are ready to be 3D printed into physical objects.) These students will be given time in school to create 3D objects relevant to their curriculum. A group of students will also practice public speaking and presentation skills at the 2015 Dare to Share Technology Conference.

Prime the Pump (\$2,000), 2012-2013 – Dr. Adrienne Palma

The new Common Core curriculum will be focused on having students reading informational texts. Hoping to encourage a love of reading, and getting students starting the school year off running, students will have an opportunity to self-select books at their reading level as incentives and rewards for positive behavior and other school-wide initiatives throughout the year.

iPads for Interventions (\$2,000), 2011-2012 – Laura Piland

Grant funds were used to purchase three iPads and related software applications to help provide individualized instruction and educational interventions to struggling students, primarily in the areas of math and reading. Ms. Piland specifically stated that she intended to share the iPads with all first-grade teachers at NHES and that her goal was to have at least 90% of students performing at grade-level by year’s end.

NHES Seated Outdoor Classroom (\$2,000), 2009-2010 – Lora Whitehurst

This grant will help purchase construction materials to build an outdoor classroom at NHES. The outdoor classroom at NHES will be used by all students for hands-on learning in all curriculum areas.

The outdoor classroom will include learning resources such as a rain barrel, sun dial, native vine arbor, water garden, flower beds and butterfly habitats. To make the most of their new classroom, NHES staff are participating in a training and resource program

provided by the NC Museum of Natural Science titled “Using the Outdoors to Teach Experiential Science”.

**Wright Flight (\$2,000), 2005-2006 – Karen Calvert, Wright Flight of North Carolina
Sponsored by East Carolina Bank**

A Dare Education Foundation grant helped launch the highly successful Wright Flight program at the new Nags Head Elementary School in the fall of 2005 with 72 students participating. Wright Flight was first implemented at First Flight Elementary School in 2000 with 122 students participating. In 2004, the program expanded to Manteo Elementary and Kitty Hawk Elementary, with a total of 290 students. The goal of the Wright Flight Program is to convince every child - no matter their ability, socio-economic level, or special need - that they can make significant strides academically and personally through their own hard work and determination.

FIRST FLIGHT MIDDLE SCHOOL \$16,534

Homework Hotline (\$2,000), 2014-2015 – Nicole Northrup

The project will be a “homework hotline” that allows for direct communication between parents or guardians, students, and certified teachers with regard to concerns that parents/guardians and students may have with homework and/or classwork. It will be another tool to communicate with parents and students with regard to the ongoing learning process. We feel the need to develop as many forms of communication as possible between home and school in order to ensure the academic success of all students. The homework hotline offers a comfortable alternative for those parents who do not have online access or have a low-level of comfort with technology.

Composer-in-Residence (\$795), 2014-2015 – Hollie Lewis

Sponsored by REIMAR, LLC

While at a conference that she had been awarded a DEF Professional Development Scholarship to attend, Ms. Lewis reconnected with a former college professor. Her college professor, Doug Gateley, composed original pieces to be played by Ms. Lewis’ students. Through this grant, Mr. Gateley was able to come to Dare County and provide a special workshop for Ms. Lewis’ students. Further, at the end of the workshop, her students were able to perform the original pieces at a community concert.

Balancing (\$419), 2014-2015 – John Welch

Studies have shown that balance balls in the classroom may help children focus better and demonstrate fewer negative behavioral issues. The FFMS Parent-Teacher Organization purchased the balance balls and Mr. Welch requested that DEF partner and fund the stands for the balls to be placed into for additional stability.

Discovery Ed Social Studies Techbook (\$1,870), 2013-2014 – Nicole Northrup

Due to the rising costs of hard-copy textbooks, the fact that they are obsolete before being published and many school districts transitioning to 1-to-1 computer initiatives, hard-

copy textbooks are no longer available to every student in DCS beginning in middle-school. This is a digital textbook that reaches students across learning styles with text, audio, video and still images that is updated on a real-time basis for students to learn from. These funds purchased a one-year license for students and DCS will be providing an additional 5 years of licensing for this program.

Walking Fieldtrips (\$1,500 per year for 2 years), 2012-2013 – NC Aquarium on Roanoke Island, Rhana Paris

Funds for field trips have been almost completely cut from the schools' budget, but the Aquarium educators recognize the rich surroundings of the schools. This project was inspired by the close proximity of FFMS to Run Hill Ridge, Nags Head Woods and other ecological areas. During the project's first year, 8th grade students and teachers walked to these locations and took soil and water samples, as well as studying the ecosystem and how it changed throughout the year. The teachers were trained to be able to conduct these sorts of walking fieldtrips in the future without requiring the ongoing assistance of an environmental educator. In the second year of the project, 6th graders participated.

El Club de Español (\$450), 2011-2012 – Patty McKenna and Karen Savona, Parents

Students in Dare County Schools receive foreign language instruction in elementary school and in high school. However, due to budget cuts forced by the economic crisis over the last few years, no instruction is provided in middle-school. Parents sought to provide interested students an opportunity to fill that gap by attending an after-school, extracurricular club that would provide 2 hours per week instruction in Spanish language and culture through face-to-face instruction, online learning and real-world interaction. After the first instructor left the program, NHES' 2011-2012 Teacher of the Year, Hillary Griffin, took over responsibility for leading the club.

Student Home Access to Geometer's Sketchpad (\$1,000), 2010-2011 – Tom Haske

This grant was awarded to purchase a site license for Geometer's Sketchpad math software for 210 students at FFMS. FFMS math teachers will incorporate software specific learning objectives into the curriculum for the 2010-2011 school year. The project is planned as a pilot to prove the effectiveness of the software in helping students grasp and think critically about math. Once proven, Mr. Haske would like to replicate use of the software in lower and higher grades county-wide.

Data Loggers (\$2,000), 2009-2010 – John Welch

Two-thousand dollars was awarded to purchase Explorer Data Loggers and peripheral sensor equipment for students to use to collect, download and manipulate data such as temperature, wind, etc. 21st Century Skill development includes the use of a high tech apparatus to predict, collect, analyze, and evaluate scientific data in order to practice scientific inquiry, critical thinking and problem solving.

Flute Choir (\$2,000), 2008-2009 - Suzanne Blackstock

Grant funds will enable the purchase of a bass flute. The acquisition of a bass flute is the final step in providing the instruments needed for a youth flute choir. A flute choir consists of C ("regular") flutes, piccolos, an alto flute and a bass flute. Having all of the

instruments will allow the students to experience a unique musical genre that they might not otherwise hear, let alone participate in.

Students will be allowed to play all of the instruments at various times. This project supports 21st century learning as students explore one of the core subjects (music) deeper than required by the regular school curriculum.

The experience also focuses on learning and innovation skills such as: critical thinking and problem solving - participating in a musical ensemble inherently works on these skills as members of the ensemble work to play in tune and with correct notes and rhythms; creativity and innovation - this will be the first flute choir in the area; communication and collaboration - again, musical ensemble playing demands communication and collaboration with others in the group as they strive toward a common goal. Life and career skills are also developed, such as: initiative and self-direction - students will need to be self-directed as they practice music for the flute choir; leadership and responsibility - students will be allowed to assume leadership roles as they learn to play different instruments and students will learn responsibility through the care of the instruments and the commitment to group performances. The Fantastic Flutes program will be made available to all flute players at First Flight Middle School. If high school flutists or flutists from other middle schools are interested, they may also participate. By the end of June 2009, all participants will have had the opportunity to play all instruments in the flute choir. By the end of June 2009, the flute choir will give at least one public performance.

Strings Program (\$2,000), 2007-2008 – Gerry Manolas, Retired DCS Band Director

Upon successful implementation of this pilot program, all students in Dare County Schools will have the opportunity to play a stringed instrument starting in 6th grade, and continuing through 12th grade. This will be a pilot program, to begin at First Flight Middle School for rising 6th graders for the 2007/2008 school year. The program will also be opened to any interested 7th graders.

There will be 40 violins available to the first 40 students to apply. The program has been approved by the Dare County Schools Board of Education and Superintendent, and will be offered to Manteo Middle School and Cape Hatteras Middle School for the 2008/2009 school year. To apply, a student will be required to submit a \$40.00 rental fee for the use of the violin for the first year. At the end of the first year, the student must surrender the violin. The student will then be required to purchase their own violin, at a starting cost of \$120.00, to continue in the program. The \$40.00 rental fee will be used for repairs, re-stringing the violins, general reconditioning and/or purchasing additional instruments. This system will enable at least 40 new students to enter the program every year at a very low cost. As needed, violas, cellos and basses will be added. At the High School level, the orchestra will give those students that do not wish to be in Marching Band and alternative musical experience. After the successful implementation of this pilot program for two years, DCS (Dare County Schools) will be expected to take over the entire string program, expanding it to the other middle schools in the county and providing certified, qualified instructors, equipment and facilities as needed. Through this grant award, DEF

is helping get the program off the ground by helping to pay the instructor. DEF also helped Mr. Manolas land a grant from the OBCF to pay for equipment.

Nurtured Heart Approach To Improving Student Behavior (\$1,000), 2003-3004 – Nicole Martin

MANTEO MIDDLE SCHOOL \$18,926

Illuminating Lessons (\$2,000), 2015-2016 – Triva Day

This project will get students up and moving and ultimately more engaged in their learning experience through the use of a SMART Board, or interactive whiteboard. There are many programs available for the SMART Board which allow students to interact with the board, as well as each other.

Ms. Day had a SMART Board at her previous school, which was also a Title I school, and she saw tremendous growth in student participation and overall grades/scores there. She had numerous SMART Board files with games, lessons, etc., but was unable to use them with her students here because she did not have a SMART Board.

21st Century Literacy Skills (\$1,800), 2011-2012 – Marie Richards and Carrie Houseknecht. The goal of this project was to motivate middle-school students to read, and experience the joy of reading, in a technologically-advanced world. DEF funds purchased MP3 players pre-loaded with books, also known as PlayAways. Students listened for 30 minutes nightly and their comprehension was tested at the end of each book, as well as tracking whether they then checked-out any other books in the series in hard-copy form afterward. As a culminating project, students shared their reflections by creating an infomercial regarding the use of Playaways in school and presenting their infomercial before the Dare County Board of Education during their April 2012 meeting.

Visualization Tunnel (\$1,668), 2010-2011 – Steve MacDonald

Grant funds will purchase a Flow Visualization Tunnel for the MMS Tech Ed Class. Technology Education focuses on analysis, design and construction, test and evaluation, and problem solving in the areas of transportation, communication, energy, power and production systems. The wind tunnel will help students see firsthand how theory applies to models and projects they build, including, but not limited to cars, airplanes, and wind turbines. Use of the Visualization Tunnel will provide a rich hands-on and relevant learning opportunity for technology education students.

Public Service Announcements (\$400), 2010-2011 – Carrie Houseknecht

Media Coordinator Carrie Houseknecht applied for funds to purchase two flip cameras for students to produce PSA's regarding health habits. Students will use the Big 6 Curriculum purchased through a DEF grant last year to conduct their research and write the PSA's. The video cameras will then be used to film the PSA's.

The Big 6 21st Century Literacy Skills (\$370), 2009-2010– Carrie Houseknecht

Grant funds will be used to purchase workbooks for all MMS students to learn The Big 6 21st Century Literacy Skills. The Big 6 teach students important critical thinking skills in the following order; directing independent research, seeking information, selecting the best information sources, assimilating the research in one's own words, organizing information, and evaluations one's own work for improvement.

The Power of Pedometers (\$1,100), 2009-2010 – Danny Harbert

Grants funds will be used to purchase 50 pedometers for all MMS students to use. The pedometers will provide students the opportunity to develop awareness and ownership re: their personal health while using technology and tracking personal physical activity data using excel. 21st Century Skill development includes personal health awareness, technology, data management and real world math application.

Expand Strings Program to MMS (\$1,928), 2008-2009 - Gerry Manolas

DEF and OBCF provided seed money to pilot a strings program at FFMS last year. The program met with much success and as part of his original plan, Gerry is now expanding the program to MMS.

DCS will be paying the instructors and this grant from DEF will purchase foldable music stands for the students to practice t home, shoulder rests for violins and violas, and up to 10 violins if needed based on the number of students who enroll. DEF will again apply to the OBCF on behalf of Gerry for additional materials and instruments needed to expand to MMS.

Going Green with Technology (\$1,200), 2008-2009 - Jeff Whitt

This grant will provide needed equipment for the MMS Publications class to “Go Green” with their news and PR and produce a paperless bi-weekly newspaper. The paperless news will be called “newsweb” and will be 3 pages in length with over 14 articles per edition. MMS students will develop and practice 21st Century Skills as they research and write the articles, publish them to the web, and most importantly – work together to get it done.

Dance, Dance Revolution (\$2,000), 2007-2008 – Edgar Harbert

The Dance, Dance Revolution program at MMS will provide all 6th, 7th, and 8th grade students (350 total) with the opportunity to integrate technology with physical education and increase physical activity levels to help curb obesity. Grant funds will help purchase four game systems to be set up in the gymnasium where students will use dance pads to emulate movements of a particular dance set to music. The activity meets with the development of 21st Century Skills as it will give students the opportunity to have fun using technology, all while increasing their moderate to vigorous physical activity levels by 85-90%.

Geo-Caching (\$1,960), 2006-2007

Paul Deal, Technology Facilitator, Manteo Middle School

Sponsored by Cooperative Bank

Funds were awarded to purchase 19 GPS units to teach social studies, math and science skills and concepts to all 6-8 graders at MMS. One goal of the project is to provide students knowledge of longitude and latitude positions via handheld GPS as they plot mapping points hands-on. It is expected that 90% of those instructed will become proficient with the GPS technology. The project will provide classroom instruction as well as use the devices to form a geo-caching program for interested students.

Yesterday's Students– Today's Technology (\$1,000), 2006-2007

Jeff Whitt, Mary Ann Hodges, Matt Austin, Paul Deal, and Sandy Ferguson

Sponsored by BB&T

The applicants were awarded \$1000 to offer a two-session technology mini-course for parents (one course per grade level 6-8). Applicants expect up to 120 parents to participate. The course will offer detailed instructional application skills as well as handouts for Power Point, MS Publisher, MS Word, and MS Excel. Students will help to deliver the instruction. Students of participating parents will also attend the 2nd session with their parents and work on a cooperative project connecting all curriculum areas. The sessions will be offered at MMS from 6-8pm. A website to provide additional support is also planned.

The project was tested in 2005-2006 with 18 parents participating in a 2 hour session with positive outcomes. Requested funds will pay for booklets for program participants, a small stipend for Paul Deal, Technology Instructor, and subs for the teachers while they travel to other campuses to share info about the program.

The Amazing Adventure (\$1,500), 2005-2006– Jeff Whitt and Mary Ann Hodges

Sponsored by Cooperative Bank

Jeff Whitt submitted a grant application to the Dare Education Foundation for funds to support an innovative project named “The Amazing Adventure”. Mr. Whitt got the idea from the popular CBS reality TV show called the “The Amazing Race”. He started the program at MMS in 2004, using money out of his own pocket. The program met with so much success that he wanted to expand it to all grade levels at MMS and have the opportunity to share it with his colleagues in Dare County Schools and across the state. In fact, as part of Mr. Whitt's DEF grant award, he shared information about the project with his colleagues at FFMS and CHSS. As part of the Amazing Adventure project, students are put into teams and compete with other teams to use clues to find the answers to questions about the topic they are studying. As Mr. Whitt explained, he serves as the facilitator while the students are actively engaged in their own learning. The project is truly amazing with intergenerational, cross curricular, and parent involvement weaved all the way through.

Recycled Reading (\$2,000), 2003-2004 – Laura Hummell

Ecosystems and CHSS – Bridging the Gap for Middle School Students (\$2,000) – Carol Coryea**Matching funds provided through a generous grant from the Outer Banks Community Foundation**

The purpose of this project is to connect 6th grade middle school students with their local coastal ecosystems. Cape Hatteras is a unique environment, one that is diverse in both climate, local weather and living organisms. Students in middle school are at the perfect age to better understand their place in this community-wide ecosystem. Starting with an assessment of their local school yard, and a further connection to the ocean community of marine life, students will begin to synthesize their place in the global system. The opportunity to collect field data and to share this data on a global basis will be established using GLOBE.org student protocols. Their data and projects will be peer reviewed, and then presented by the students via a virtual science fair in the spring of 2017 and the USA GLOBE Regional Science Fair. As tools to open the doors for student engagement, and encouraging future self-directed learning, middle school students will have hands-on field experiences at the UNC Coastal Studies Institute and the North Carolina Aquarium on Roanoke Island. Students will share their experiences with other family members and local community members by doing presentations for 1st-3rd graders at CHES and hosting a public event at CHSS.

Fall Outer Banks Foods and Hospitality and Tourism Exploration (\$400) – Evan Ferguson**Matching funds provided through a generous grant from the Outer Banks Community Foundation**

Hospitality and Tourism Honors students and Foods 2 Honors students will take a day trip to Manteo with a focus on NC heritage, native foods and seafood, and comparing Roanoke Island with Hatteras Island. On the trip, students will explore different types and the interrelationships of hospitality and tourism destinations; the impact of hospitality and tourism destinations on an economy; how geography impacts hospitality and tourism destinations; destination marketing; and historical and local foods. After the trip, students will be tasked with creating a promotional project for destinations in Manteo.

STEM Sustainability and Life Science Field Trip (\$850) – Evan Ferguson**Matching funds provided through a generous grant from the Outer Banks Community Foundation**

AP Earth and Environmental Science students and Foods 2 Honors students will travel to the Raleigh-Durham area to explore sustainable, humane farming practices and applied earth and environmental sciences in an interactive, hands-on setting. Students will visit the Museum of Life and Sciences, Maple View Farm and the NC Farmers Market. Students will relate their experiences directly to their respective class curriculum, but special emphasis will be placed on an increased understanding of sustainable farming, earth and environmental sciences as it applies to a natural setting and technology in the food system; expanding interpersonal skills; and navigating and trip planning in large cities.

Hatteras-Conetoe Food and Cultural Exchange (\$1,075) – Evan Ferguson
Matching funds provided through a generous grant from the Outer Banks Community Foundation

Hatteras is considered a “food desert”, or a part of the country lacking in fresh fruit, vegetables and other healthful whole foods, so Evan Ferguson has been looking at ways to bring fresh fruits and produce to Hatteras Island. To put this very simplistically, the kids from Conetoe exchange fresh produce for fresh fish from the kids in Hatteras and they learn from one another’s cultural backgrounds.

Last year, students from CHSS travelled to the Conetoe Family Life Center, a 25-acre community farm with free after-school and summer programs in a variety of skills. The Center also offers kids opportunities to learn small business skills. The Center’s creator, Richard Joyner, was named as one of the top 10 CNN Heroes, and is on-site to learn from. This is a program that could be scaled and possibly replicated in Hatteras.

In exchange, the students from Conetoe, who are predominantly African-American were invited to the “Day at the Docks” celebration and they learned about the significant role that African-American watermen played in the Life-Saving Service along the Outer Banks. They also got to take part in surf fishing, even more of a treat because many of them had never seen the ocean!

This grant helps to continue this program for a second year.

Sustainable Farming and Farm-to-Table Career Field Trip (\$900) – Evan Ferguson
This trip will expand the already thriving Culinary and Biology/STEM projects at CHSS, including the Hatteras-Conetoe Food and Cultural Exchange program.

Paradigms for the 21st Century (\$1,270), 2011-2012 – Tod Ray

CHSS began Freshman Academy, an innovative program to help students make the transition to high-school, in the 2011-2012 SY. Out of this Academy also came the desire to focus on more STEM-type skills and so came a project to have the students calculate their carbon footprint and then work on developing ways to decrease that footprint. This is especially important for an area like Hatteras Island that is so environmentally rich. DEF funds were used to purchase a classroom set of graphing calculators so that students could make these complex calculations and analyze the data in formulation solutions for the future.

Faces of Hatteras Island – Past and Present (\$2,000), 2011-2012 – Dare County Arts Council, Laura Martier. This grant was in conjunction with funding from the NC Arts Council and the Dare County Arts Council. Artist in residence, Tunde Afolayan, worked with Ms. Martinez’s art students to research Hatteras Island residents, past and present, and then paint a mural highlighting some of those individuals. The piece was intended to be on permanent exhibition at CHSS, but DEF approved the grant with the requirement that the piece be able to travel to other areas of the county as well.

CHSS Marching Band (\$1,900), 2010-2011 – Sean McCroskey

Grant funds will help in the creation of a marching band at CHSS. Marching Band will provide 8-12 grade students with the opportunity to develop 21st Century Skills, including personal responsibility and accountability, collaboration and critical thinking.

Recycled Math (\$1,000), 2010-2011 – Amber Bradshaw

Grant funds will help implement a new recycling initiative for the entire student body at CHSS. Students will practice social responsibility as they learn the importance of recycling. The project will also provide a hands-on opportunity for students to apply math skills by using ratios, proportions and percentages. Leadership skills will also be developed as students prepare presentations to encourage others to recycle.

Biotechnology (\$1,307), 2010-2011 – Erin Del Monte

Grant funds will be used to purchase high tech, high quality lab equipment that will allow 9-12 grade Honors/AP Biology students at CHSS to conduct DNA analysis. Along with the DNA analysis, students will use critical thinking skills to assess the impacts of genomics on individuals and society and research new and upcoming careers in the field of Biotechnology. Students will work collaboratively in groups when completing project activities.

Café 316 (\$500), 2009-2010 – Merri Jamieson

This grant will help CHSS EC students expand their coffee service to a coffee café. The students will learn 21st Century entrepreneurial skills as they build their menu, learn recipes, advertise the café, practice safe food handling and sell their goods. The goal is for the students to open the café and make it profitable.

High School 101 – Freshman Transition and Dropout Prevention (\$2,000), 2008-2009 – Elke Schwartz and Elaine Whitaker. DEF grant funds will help purchase the needed curriculum for this project titled High School 101. The goal of the project is to help 9th grade students at CHSS make a smooth transition to high school and to prevent dropout. As reported in the grant application, 30% of students who enter the 9th grade never graduate. The majority of these dropouts report that high school is boring and not relevant to their every day life. The curriculum to be purchased by DEF was designed by a team of educators and business people to help students learn vital 21st Century Skills in a practical, relevant and hands-on manner. 100 ninth grade students will benefit in the first year and 50 8th grade students annually thereafter. Project partners include Hatteras Island Buxton Kiwanis and Hatteras Island Civic Association.

Classroom Fish Hatchery (\$2,000), 2007-2008 – Tracy Shisler

Working with the Coastal Studies Institute, 150 CHSS middle school students will design, build, and maintain a fish hatchery. The students will raise flounder and red drum, which will be released into the Pamlico Sound at the end of the school year. The project will span the curriculum areas of science, math, social studies, language arts and technology with a focus on protecting the local environment the global community.

Students will use 21st century skills such as developing hypotheses, conducting scientific investigations, calculating and presenting useful data, and developing and practicing communication skills to impart project results.

Mosaic Skills Project (\$700), 2003-2004 – Merri Jameison

FIRST FLIGHT HIGH SCHOOL \$18,933

Programming with Sphero (\$1,000), 2016-2017 – Nancy Stevens

Matching funds provided through a generous grant from the Outer Banks Community Foundation

This grant will address a need in both computer science courses that Ms. Stevens teaches: Microsoft Introduction to Computer Science and AP Computer Science Principles. Students will program games and apps using curriculum-specified programming languages. The Sphero gives the students a hands-on opportunity to program a device using a C-based programming language called OVAL. The Sphero will get students away from their computers and engaging in a real-world exercise of programming the Sphero. The Sphero classroom pack comes with a set of lessons. The Sphero also has accessories for protection of the device and includes challenging activities.

Making Statistical Connections (\$958), 2016-2017 – Susan Blackwell

Matching funds provided through a generous grant from the Outer Banks Community Foundation

Thanks to a Professional Development Scholarship that DEF awarded Ms. Blackwell a few years ago, she was part of a pilot program that supplied HP Prime Graphing Calculators for her classroom. Her statistics students loved using them and the calculators brought so many powerful connections between the data. By utilizing symbolic and graphical displays of the same problem, it was easy to grasp connections, that many students had difficulty making in the past, with these calculators. Her numbers of those electing to take this AP Statistics class have almost doubled! This grant will allow her to get additional graphing calculators for her students so they can continue to make the connections necessary to master Statistics.

Publications Photography Gear (\$1,800), 2015-2016 – Steve Hanf

This project will expand the quality of the already-established yearbook and newspaper programs, but in a new way – by having camera equipment that allows First Flight students to do the bulk of the photography for the program.

Journalism Transition (\$1,025), 2014-2015 – Robin Sawyer

The FFHS Journalism Program is one of the top programs in NC. They have won over 400 awards in their first 10 years of existence. They had been trying to maintain a WordPress site for the online edition of the Nighthawk News. However, the WordPress site was no longer able to provide all of the functionality that the program needed. This project allowed them to migrate over to the School Newspapers Online platform.

The hope is that by allowing for advanced content options, the students would be eligible and have the tools needed to win national awards for the online edition.

iPads for Special Needs (\$2,000), 2013-2014 – Sam Iulo

Sponsored by Mr. & Mrs. Branch and Leigh Anne Vincent and the Knights of Columbus #8759

iPads have revolutionized the ability of many special needs students to communicate with their teachers and peers and vice-versa. Further, tablets like iPads can be helpful to students that struggle with fine motor skills and have difficulty writing with paper and pen. These iPads will be used with students with moderate to severe disabilities across a wide-spectrum of conditions to help them communicate in socially appropriate and clear ways in order to help them learn more efficiently, and to further their relationships with others and be more independent. The teachers will also collaborate with the speech therapists on this project.

Aquarium Concepts and Careers (\$2,000 per year for 3 years), 2012-2013 – Ray Richards

Due to reduced budgets and increased instructional demands, high-school students no longer have the ability to take part in many fieldtrips. However, for teaching concepts in biology and chemistry, including AP and honors-level concepts as well, being able to collect water samples on a regular basis, in order to analyze and compare them is helpful. This project will allow students to collect those samples without missing any instructional time. Further, the students will maintain the aquariums and learn about the chemicals and procedures that go into doing so. Having this type of experience, may also provide additional opportunities for students to intern or work at the NC Aquariums or other similar places.

Aquarium Stands (\$450 per year for 2 years), 2012-2013 – Skip Saunders

Building on the success of the First Flight Furniture project, the construction students were called upon to design two different stands that could bear the weight of fully functioning aquariums. This hands-on learning project allows students an opportunity to explore real-world challenges and create a solution for them.

First Flight Furniture (\$2,000), 2009-2010 – Jennifer Hamrock and Skip Saunders

Curriculum, materials and supplies and a small stipend to a professional word worker are covered by this grant. The project provides the opportunity for up to 40 construction students to design and build furniture to be sold for profit to return to the FF Furniture Construction project.

21st Century Skill Development includes critical thinking, problem solving, communication, and creativity with a real world application to produce and sell furniture.

China Partnership (\$2,000.00), 2008-2009 – Jane Shipman and Brian Phoebus

Two-thousand dollars was awarded to help twelve FFHS students continue their 21st Century global awareness experience by visiting their partner school Meicun Senior High in Wuxi, Jiangsu Province, China. FFHS is one of ten schools in the state selected to

participate in this global awareness initiative through the Center for International Understanding at UNC Chapel Hill. In fact, FFHS was able to leverage DEF as a partner and resource in the competitive selection process. Although the committee does not generally fund grants for travel, the committee approved the grant due to the long-term nature of the project, the commitment among participating students to engage in global awareness, and the close tie to the partnership goals and our 21st Century Grant goals.

Smartview (\$670), 2008-2009 – Susan Blackwell

DEF funds will purchase 5 copies of TI Smartview Software for FFHS 9-12 grade math students. The software will allow the projection of graphing calculators using the smartpad so that teachers can model and teach proficiency on the graphing calculators while students also make connections with the mathematical models. 21st Century learning will include enhanced technology skills, critical thinking and problem solving skills while connecting verbal, numeric, algebraic and graphic models as recommended by the Nat'l Council of Teachers of Math. The project is a pilot and project results may include software purchased for all other secondary schools in the district by the district.

Discovery Science Program (\$200), 2007-2008 – Danielle James

Ms. James is going to help her high school science students learn science concepts by having them prepare to teach them to younger (more at four and elementary) students. Concepts of microscopes, cells, plants, animals, ecosystem, biome and recycling will be taught by FFHS science students to these younger students on a monthly basis. The goal of the project is to use project-based learning to help the FFHS science students increase their end-of-course scores. DEF funds will help pay for project materials such as crayons, paper, markers, etc.

Speech Scaffolding (\$380), 2006-2007 – Jennie Rook, Career Development

Coordinator. Beginning with 2006-2007 9th grade students, when they become seniors and thereafter, all high school seniors will be required by the state to have completed a “senior project”. The senior project will require students to explore career options by shadowing and practicing skills such as research, group work and oral and written presentation skills. Planning ahead, FFHS seniors currently do a senior project as part of their senior English class. This year, project leaders requested grant funds from DEF to include professional speech instruction for students as part of the academic instruction for the project. By doing so, project leaders will learn the elements of teaching public speaking to students from a professional and incorporate this into their teaching in future years. Also, this years seniors numbering 55, plus and addition 15 students from grades 9-12, will learn public speaking skills from a professional, practice them and use them to deliver their final 8-12 minute presentation for their senior project.

Digital Upgrade for Broadcast Journalism Class (\$2,000), 2016-2017 – Stephen Nichols**Matching funds provided through a generous grant from the Outer Banks Community Foundation**

This grant will allow the new Broadcast Journalism Class to procure two digital cameras. The class started in the Fall with tape-based cameras just to get them up and running. However, in the broadcast journalism industry, tape-based cameras are obsolete and they also put the students at a disadvantage when it comes to the editing end of the process because the process is so much more cumbersome with tapes. Therefore, these cameras will offer students industry relevant, real-world, hands-on experiences that they can add to their resume. Students will learn 21st century skills in a project-based and deadline driven environment. In addition, their work will be publicly visible, both within the school every day, and on the GovEd channel every week, giving additional incentive to create quality work and helping them to build their portfolios.

Summer Problem Solvers Camp (\$884.50), 2013-2014 – Suzanne Pack

Interested students will spend two days over the summer working on advanced math, creative problem solving and computer programming skills with the possibility that the participants may enjoy the experience enough to form a high-school level Odyssey of the Mind team for the 2014-2015 School Year.

Downtown Manteo Walking Tour App (\$2,000 per year for 2 years), 2012-2013 – Mike Phelan

Students built a Smartphone App that could be accessed on Windows, Android or iOS-based phones. The project celebrates landmarks of Downtown Manteo and was a collaborative project. The History classes helped determine which landmarks should be chosen and their significance; the English Language Arts classes helped write the descriptions; the Photography classes took the pictures of the landmarks and the Computer Science Club wrote the programming code. Students also developed marketing materials for the app and it is for sale now in the Google Play Store or on iTunes. The grant funds were used to purchase various devices that can be used for many other projects in the future as well.

Frank Stick Flat Top Legacy Photography Project (\$2,000), 2010-2011 – Yvonne Miakisz. This grant was approved in the amount of \$2000.00 to support an intergenerational art history project featuring student photographs inspired by Southern Shores flat top houses built 1948-1953. Thirty-three MHS 10-12 grade art students will prepare a public exhibition entitled “Flat Tops: A New Perspective” to include 75 matted and framed images. The exhibition will be held October 2 – October 30 at Glenn Eure’s Ghost Fleet Gallery and include a printed catalogue, digital archive, speaker presentation, on-line gallery, people’s choice award, flat top history handout, public reception and evaluation form. The public reception will be held on October 10, 2-4pm. 21st Century Skills developed include creativity, critical thinking, contextual learning, entrepreneurial literacy and personal productivity.

Student Enrichment with 21st Century Skills (\$2,000), 2009-2010 – MHS Math Dept.

The MHS Math Department will purchase Texas Instrument Calculators with these grant funds. With a supply of 20 new calculators, all students, and in particular those with limited financial means, will have the opportunity to use highly sophisticated calculators to increase critical thinking and problem solving skills, prepare for the SAT's, and collaborate during math contests.

5-6-7-8 Dance! (\$1,000), 2009-2010 – Constance Rose

MHS students will be offered the opportunity to learn and practice theater dance during "Empower Hour". An unlimited number of students in grades 9-12 can participate in this cultural arts activity that will also help the students develop an appreciation for theater dance while benefiting from an alternate form of athletic training and physical activity.

Storm Water Management (\$1,500), 2009-2010 – Patricia Holland

This grant pays for materials and supplies for 150 MHS students to help construct a storm water cistern and design and plant an indigenous rain garden to help control the storm water runoff into Shallowbag Bay. 21st Century Skill development includes problem solving on a real community issue, critical thinking, collaboration, using technology, and real world application of math, science and social studies concepts.

Body World: A Look Into Human Body Systems (\$680), 2007-2008 – Angela Gard

This DEF Grant paid the entry fees for 28 students in grades 10-12 to experience the nationally acclaimed Body World exhibit at the Discovery Learning Center in Charlotte, NC. The experience is one that has the potential to increase student interest in careers such as forensics, medicine, and biology. The experience is also one that will give students a real world 21st Century Skills perspective into some of these career fields.

ROV Club (\$1,000), 2007-2008 – Karra Shimabukuro

This DEF Grant will allow 15+ students in the ROV Club at MHS to partner with UNC Coastal Studies Institute and the COA Marine Science Program to design, build and test and Remote Operated Vehicle. The project will expose students to careers in marine-related fields, while teaching hands-on science, math and technology skills. Once the ROV is complete, students will compete in local and regional competitions, helping students develop some of the soft skills including collaboration and communication.

Student Environmental Awareness Coalition (\$322), 2007-2008 – Anna Thomas

The entire MHS student body will be involved in a recycling program in order to increase student awareness about global warming and climate change. This program will be facilitated by the Student Environmental Awareness Coalition (SEAC). DEF will provide funds for SEAC to purchase trash cans for the entire student body to recycle. The project will provide an opportunity for project-based learning and community service, as well as teach concepts related to global environmental issues.

Freshman Adventures (\$2,000), 2004-2005 - Lynn Blackburn, Assistant Principal

"Freshman Adventures" is a project designed to help high school freshman make the sometimes difficult transition from middle school to high school.

Project activities are designed to improve academic performance, behavior and attendance among these students. As of 3rd Quarter, 2006, with 114 9th grade students participating, there were no drop outs, with 90% of students passing in all classes, and 90% having no disciplinary problems.

DARE COUNTY ALTERNATIVE SCHOOL \$3,300

What Do Kids Care About? (\$1,500), 2009-2010 – Laura Martier, DCAC

Grant funds will help bring an artist in residence to the Dare County Alternative School to spend 5 days with all students to plan and implement the construction of a labyrinth made from recycled shoes and embellished with student artwork. 21st Century Skill development includes social responsibility as it pertains to using recycled shoes, creativity, collaboration and building a relationship with a positive role model.

Junk Jam (\$1,800), 2004-2005 – OB Hotline

Sponsored by RBC Centura

Dare County Alternative High School students spent a week in residence with artist and musician Donald (the Junkman) Knaack. Knaack guided the students in the design and creation of a junk music sound installation while teaching principles of recycling, sculpture and sound. The DCAS students performed on instrument at Earth Day at the NC Aquarium on Roanoke Island on April 16, 2005. On April 18, 2005, the Junkman traveled to Cape Hatteras schools to work with students there. The project was coordinated by Hotline, with the support of several local and state organizations, including RBC Centura Bank and the Dare Education Foundation.