

**DARE EDUCATION FOUNDATION  
SUMMARY OF GRANTS AWARDED  
UPDATED SEPTEMBER 2009**

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**DISTRICT-WIDE OR MULTI-SCHOOL**

**Outer Banks Totem Experience (\$1000), 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.

**21<sup>st</sup> Century Author In Residence (\$2000), 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 21<sup>st</sup> 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 21<sup>st</sup> Century Skill concepts explored in his books. During the 2<sup>nd</sup> 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 (\$2000), 2008-2009 – Bill Evans**

Middle School students district-wide will develop 21<sup>st</sup> 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 9weeks at each school. DEF funds will be used to purchase NXT Kits, Robolab Software, and other miscellaneous supplies.

**CPR/AED Training for Students (\$1897), 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 (\$2000), 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 (\$2000.00) 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 (\$2000), 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 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 (\$1450), 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 (\$2000), 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 (\$2000), 2006-2007 Jessica Loose**

**Sponsored By RBC Centura**

Jessica Loose is the Lead ESL Teacher for DCS. 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 (\$2000), 2003-3004 - Sam Ballard, Becki Rea,**

### **KITTY HAWK ELEMENTARY SCHOOL**

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

Grant funds will help KHES 4<sup>th</sup> 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. 21<sup>st</sup> 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 5<sup>th</sup> 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 5<sup>th</sup> graders to begin taking Science EOG’s in the spring of 2006. “I applied for this grant on behalf of the 5<sup>th</sup> Grade Science Team to enhance the delivery of the science curriculum and to prepare students for the first ever 5<sup>th</sup> Grade Science End of Grade test which will take place in 2006,” said Doug Potter, a member of the KHES 5<sup>th</sup> Grade Science Team.

**Kindergarten Life Science Project, (\$1000), 2003-2004 – Traci Potter**

### **NAGS HEAD ELEMENTARY SCHOOL**

**NHES Seated Outdoor Classroom (\$2000), 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 (\$2000), 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 participating. 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 ELEMENTARY SCHOOL**

**Bring Us the Stars! (\$200), 2009-2010 – Chavaleh Wetzel**

This grant will help bring the UNC Planetarium to FFES for two sessions with 3<sup>rd</sup> grade students. Students will have the opportunity to fully view the earth, moon and sun relationship following their curriculum studies in this area. 21<sup>st</sup> 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 learn during the show. They will also practice critical thinking by writing letters to project staff reflecting on the experience.

**Rooted In Learning (\$2000), 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 21<sup>st</sup> 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 as 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 21<sup>st</sup> 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 box swill 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 21<sup>st</sup> Century Science education for years to come now that they have been granted seed money to get it started.

## **MANTEO ELEMENTARY SCHOOL**

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

MES 2<sup>nd</sup> -5<sup>th</sup> 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 (\$2000), 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 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) 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 3<sup>rd</sup> -5<sup>th</sup> 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 studied mosaics from Asia, China, Mexico, Spain, and Rome, while learning about the history and culture of these regions. The project was 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, 5<sup>th</sup> graders made a 4X6 mosaic mural of the Wright Flight symbol to be put on permanent display. The mural will be used each year to display 5<sup>th</sup> 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.

**Foundations (\$2000), 2005-2006 – Peggy Privott**

**Sponsored by the East Carolina Bank**

This grant enabled all elementary ESL teachers to purchase Foundations 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**

**CAPE HATTERAS ELEMENTARY SCHOOL**

**Little Skeeter Recycled Theater (\$1500), 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 21<sup>st</sup> Century Skills as they collaborate to deliver theatrical productions using recycled materials for costumes and stage props. The theater will involve 3<sup>rd</sup>-5<sup>th</sup> grade students, in addition to some assistance from high school students. The first performance planned is Rabbit Tales 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 5<sup>th</sup> 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 5<sup>th</sup> 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 5<sup>th</sup> 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 5<sup>th</sup> graders.

## **FIRST FLIGHT MIDDLE SCHOOL**

### **Data Loggers (\$2000), 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. 21<sup>st</sup> 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 (\$2000), 2008-2009 - Suzanne Blackstock**

Grant funds will enable the purchase a bass flute. The acquisition of a bass flute is the final step in providing the instruments 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 (\$2000), 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 6<sup>th</sup> grade, and continuing through 12<sup>th</sup> grade. This will be a pilot program, to begin at First Flight Middle School for rising 6<sup>th</sup> graders for the 2007/2008 school year. The program will also be opened to any interested 7<sup>th</sup> 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 (\$1000), 2003-2004 – Nicole Martin**

#### **MANTEO MIDDLE SCHOOL**

**The Big 6 21<sup>st</sup> 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 21<sup>st</sup> 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 (\$1100), 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. 21<sup>st</sup> Century Skill development includes personal health awareness, technology, data management and real world math application.

**Expand Strings Program to MMS (\$1928), 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 (\$1200), 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 21<sup>st</sup> 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 (\$2000), 2007-2008 – Edgar Harbert**

The Dance, Dance Revolution program at MMS will provide all 6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup> 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 21<sup>st</sup> 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-Coaching \$(1960), 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-coaching program for interested students.

**Yesterday's Students– Today's Technology (\$1000), 2006-2007 -**

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

**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 2<sup>nd</sup> 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 (\$1500), 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 (\$2000), 2003-2004 – Laura Hummell**

#### **CAPE HATTERAS SECONDARY SCHOOL**

##### **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 21<sup>st</sup> 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 (\$2000), 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 9<sup>th</sup> 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 9<sup>th</sup> 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 21<sup>st</sup> Century Skills in a practical, relevant and hands-on manner. 100 ninth grade students will benefit in the first year and 50 8<sup>th</sup> grade students annually thereafter. Project partners include Hatteras Island Buxton Kiwanis and Hatteras Island Civic Association.

##### **Classroom Fish Hatchery (\$2000), 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 21<sup>st</sup> 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**

### **First Flight Furniture (\$2000), 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. 21<sup>st</sup> Century Skill Development includes critical thinking, problem solving, communication, and creativity with a real world application to produce and sell furniture.

### **China Partnership (\$2000.00), 2008-2009 – Jane Shipman and Brian Phoebus**

Two-thousand dollars was awarded to help twelve FFHS students continue their 21<sup>st</sup> 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 21<sup>st</sup> Century Grant goals. The committee noted that the grant program will not be able to support future travel, rather suggested that we talk with FFHS about helping them the way we help OM. As a requirement of the grant award, committee members would like for the students to make a presentation to the DEF Board upon their return.

### **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. 21<sup>st</sup> 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, Science Teacher**

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 9<sup>th</sup> 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.

### **MANTEO HIGH SCHOOL**

#### **Student Enrichment with 21<sup>st</sup> Century Skills (\$2000), 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! (\$1000), 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 (\$1500), 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. 21<sup>st</sup> 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 21<sup>st</sup> Century Skills perspective into some of these career fields.

**ROV Club (\$1000), 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, English Teacher**

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 (\$2000), 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 3<sup>rd</sup> Quarter, 2006, with 114 9<sup>th</sup> 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**

**What Do Kids Care About? (\$1500), 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. 21<sup>st</sup> 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 (\$1800), 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.

