



2017-2018  
**ANNUAL  
IMPACT  
STATEMENT**

Middlesex County Public Schools

**WHRO Annual Impact Statement  
2017-2018**

***Middlesex County Public Schools***

**Regional Leadership**

**Group<sup>1</sup>**

**Middlesex Representative**

**HRETA Educational Advisory Committee**

**Garland Harrow**

**HRETA Superintendents Advisory Council**

**Dr. Peter Gretz**

**HRETA Technology Advisory Committee**

**Steve Dunkel**

**Consortium for Interactive Instruction**

**Dr. Peter Gretz  
Steve Dunkel**

**D2L System Administrators**

**Vacant**

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<sup>1</sup> Please see the "Notes" section on page 26 for complete descriptions of each of these groups.

## Educator Resources and Training

**1. eMediaVA<sup>sm</sup>** ([www.emediava.org](http://www.emediava.org)), a service of WHRO and supported by the Virginia Department of Education (VDOE) and many other prominent national and Virginia-based educational content providers, is a one-stop shop for high quality digital content for Virginia's Pre-K through 12th grade teachers and students. Featuring the best purpose-built and open educational resource (OER) content from leading educational, cultural, and scientific organizations – such as PBS, Colonial Williamsburg, NASA, the Smithsonian Museums, the National Archives, Virginia's public media stations, Old Dominion University, the Virginia Department of Education, the Norfolk Public Library, SAS Curriculum Pathways, NPR, the Science Museum of Virginia, the Valentine Richmond History Center, and many, many others – eMediaVA currently offers more than 150,000 learning objects<sup>2</sup> (up from 140,000 the previous year), with more being added daily, all of which are correlated to the Virginia Standards of Learning and available at no cost to every teacher and student across the Commonwealth. More than 105,000 educators currently have registered accounts.

*Regional Savings/Value: \$431,115.00*

*Middlesex Savings/Value<sup>A</sup>: \$2,870.00*

**eMediaVA Trainings** were conducted 37 times across the Commonwealth last year. Over 900 Virginia educators participated in one of these trainings, including more than 200 from HRETA owner schools and 30 from [Middlesex](#).

*Regional Savings/Value: \$32,550.00*

*Middlesex Savings/Value<sup>B</sup>: \$4,500.00*

eMediaVA also offers a number of division-wide connections designed to streamline access and account maintenance including Clever ([www.clever.com](http://www.clever.com)) and Single Sign-On (SSO) options, as well as Learning Tools Interoperability (LTI) integrations. This year, eMediaVA implemented an LTI integration with Canvas for Virtual Virginia. In total, 43 (up from 28 last year) school divisions statewide, including 12 (up from 11 last year) of the 19 HRETA divisions (Chesapeake, Franklin City, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Sussex, Virginia Beach, Williamsburg-James City County, and York) have now integrated with eMediaVA.

**2. Special Topic Forums** are held throughout the year to address timely educational technology topics. In 2017-2018, we conducted or hosted 9 Forums: 1 to 1 Deployment and Public Wifi – Deployment of Devices to Kids and Access at Home; Apple Tech Update for Education (2); BYOD/Mobile Devices – Chromebooks and Alternative Devices to Use with TestNav and Other Initiatives; Legislative Update; Makerspace in the Schools; Makerspace Field Trip to 757Makerspace; VDOE GoOpenVA Informational Meeting; and Virginia Public Access Project Civics Workshop.

*Regional Savings/Value: \$23,850.00*

*Middlesex Savings/Value<sup>C</sup>: \$0.00*

**3. WHRO Education Online Professional Development** is designed to bring teachers the latest and greatest in high quality, on-going, easy-to-access, online, technology integration training. Offered in units of 5, 10, 15, 30, and 45 hours and featuring 80 courses from Virginia's PBS TeacherLine as well as dozens of other locally developed, high need courses, this service enables educators to stay on top of the latest trends, tap into best practices, and earn recertification points and graduate credit from the comfort of their own home and on their own schedule. WHRO Education Online Professional Development is a 21st century teaching and learning tool that can help teachers strengthen students' academic skills and meet Virginia's Standards of Learning. In 2017-2018, more than 400 teachers across the Commonwealth registered for a course, including 86 teachers from HRETA owner schools. While there is no savings to HRETA schools specifically, it's important to include this service so that you know the number of teachers from your division who are taking advantage of this opportunity.

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<sup>2</sup> Please see the "eMediaVA Learning Objects Produced or Acquired by WHRO in 2017-2018" section starting on page 13 for a list of the content acquired.

**4. Other WHRO Education Professional Development** offered in 2017-2018 included 2 PBS KIDS ScratchJr Code-to-Learn sessions, and 2 PD in your PJs webinars. Twenty-six educators from across the Commonwealth participated in one of these events, including 24 teachers from HRETA owner schools.

*Regional Savings/Value: \$3,600.00*

*Middlesex Savings/Value<sup>D</sup>: \$0.00*

**5. Workforce Development** includes **SkillsOnline™** ([www.skillsonline.org](http://www.skillsonline.org)) an affordable, digitally accessible, career certification and training solution that offers thousands of self-paced and instructor-led online courses in 19 industry sectors, including Education; five **Workplace Readiness Modules** – Applied Mathematics; Internet Use and Safety; Locating Information; Reading for Information; and Understanding Health, Wellness, and Safety – that were developed and distributed to all HRETA school divisions free-of-charge; and the GED preparation program, **Fast Forward**. HRETA schools enjoy a 10% discount on all SkillsOnline course registrations. Currently, we do not track registration or usage associated with these services to determine division-specific savings.

## Student Services

**1. WHRO Education Online Courses** are textbook independent; rich-media infused; instructor led; aligned to the Virginia Standards of Learning; have been created and reviewed by content experts from across the region to assure the highest quality; and are modular in nature to allow for local customization and maximum delivery flexibility. Upon completion, the courses are made available to each participating school division to further customize and use as they see fit within their divisions.

Since 2007, the following courses have been developed: Algebra I; Algebra II/Trig; Astronomy; Biology; Chemistry; Earth Science; Economics and Personal Finance; English 9, 10, 11, and 12; French I; Geometry; Health and PE 9 and 10; Math Analysis; Oceanography; Physics; Psychology; VA and US History; VA and US Government; World Geography; World History & Geography to 1500 A.D. (C.E.); and World History & Geography: 1500 A.D. (C.E.) to the Present. A 7-week Online Teaching Methodology (OTM) course that teaches teachers how to be successful in a K-12 online teaching environment has also been created for which James Madison University offers 3 graduate credits. A Digital Citizenship Module for students in grades 8-12 that examines online security and risks and explores digital communications and social media was also developed. The VDOE licensed 13 WHRO online courses for use in the Virtual Virginia Full-time Pilot and our online Astronomy course was awarded the National Educational Telecommunications Award for the best Online Educational Resource.

This year, WHRO staff coordinated 4 regional Learning Management System (LMS) Administrator meetings, conducted 4 trainings or presentation with divisions regarding LMS support, and provided more than 40 hours of personalized technical support to 11 divisions. Finally, in 2017-2018, WHRO staff completed 7 revised courses – Algebra I; Geometry; Earth Science; Oceanography; VA & US History; VA and US Government; and World History & Geography to 1500 A.D. (C.E.).

*Regional Savings/Value: \$12,277,130.00*

*Middlesex Savings/Value<sup>F</sup>: \$645,850.00*

WHRO also coordinates an annual group purchase of the LMS used by schools to deliver all of the online student and teacher training courses and provides general support for all the schools in the region.

*Regional Savings/Value: \$726,400.00*

*Middlesex Savings/Value<sup>F</sup>: \$0.00*

**2.** At the request of the VDOE and the HRETA Superintendents, WHRO has begun to produce a number of **Video Courses** to help with the growing shortage of highly-qualified teachers in certain subjects in the region and throughout the Commonwealth. All of the concepts covered in the Virginia SOL for each subject are presented in short, easy-to-use video segments that can be streamed or downloaded for later use and are available in eMediaVA. To-date we've completed **Algebra I** and **Geometry** and this year we began producing **Earth Science**, which is also aligned to the Foundational Concepts for Environmental Literacy that were released in 2014. This year, 61 of 93 Earth Science lessons were taped and the program will be completed in FYE2019, at which time we will present a value.

**3. Virtual Virginia** offers nearly 80 online advanced-placement, core, world language, and elective courses to students across the Commonwealth. WHRO operates the system under contract with the Virginia Department of Education. Statewide, students completed more than 15,000 courses<sup>3</sup> this past year. Regionally, there were nearly 2,500 course registrations, including **118 Middlesex** registrations from **Middlesex High School and St. Clare Walker Middle School**.

Once again, students from across the state had the opportunity to participate in a full-time online high school program through Virtual Virginia that featured 13 WHRO-produced courses. Statewide, there were 383 registrations, including 28 regional participants. While there is no savings to HRETA schools, it's important to include this information in the list of services that WHRO provides to the K-12 community because it is revenue generating to WHRO and acknowledges the educational technology leadership position the HRETA schools have attained.

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<sup>3</sup> Course registration counts also include registrations for the Virtual Virginia Economics and Personal Finance course hosted by school divisions and taught by school division teachers.

## Additional Educational Resources, Training & Services

**1. WHRO KIDS** is WHRO's 24/7 digital children's channel airing on WHRO TV 15-3, Cox 108 and Charter 701. In early 2017, this service was expanded to include a 24/7 streaming option that can be used on any mobile device. Featuring newer, award-winning early childhood programs such as Ready Jet Go!, Nature Cat, Odd Squad, Peg + Cat, Daniel Tiger's Neighborhood, Thomas and Friends, The Cat in the Hat Knows A Lot About That!, The Jim Henson Company's Dinosaur Train and Sid the Science Kid, Martha Speaks, The Electric Company, Super WHY!, Word World, and perennial favorites Sesame Street, Curious George, Arthur, and Clifford The Big Red Dog, to name a few, WHRO delivered over 160 hours of the best high-quality educational television programming each and every week, free of charge. WHRO also delivered more than 65 hours of children's programming each week on our main channel WHRO 15.1. In total, WHRO delivered over 12,000 hours of televised instruction last year. It's important to note that every single household in the WHRO service area can access this proven educational programming that helps parents prepare their children to enter school ready to learn, free of charge; consequently, the true value is significantly more than the operational costs reported here.

*Regional Savings/Value: \$255,000.00*

*Middlesex Savings/Value<sup>G</sup>: \$1,150.00*

**2. The PBS KIDS Writers Contest** was recently aligned to the Virginia Standards of Learning, encourages children to write and illustrate their own stories, and is open to K-5 students. This year, in connection with the Batten Environmental Education Initiative, we added a separate Environmental Story category and more than 100 entries were received. Local winners receive cash awards and their families are invited to attend a special reception in their honor where each winner is videotaped in the WHRO television studio reading their winning entry. A special television program and accompanying web site featuring the winners reading their stories is also created and aired. All local K-3 1st Place stories are sent on to the national PBS KIDS Writers Contest competition. More than 350 entries in total were received this year. It is difficult to determine the value/savings this activity represents, but participation in certain divisions implies its worth. [One Middlesex student from Middlesex Elementary School submitted an entry.](#)

**3. The Virginian-Pilot Spelling Bee LIVE on WHRO** is an annual event featuring 6th to 8th grade school Spelling Bee winners from Hampton Roads, Northeast North Carolina, and the Eastern Shore in a head-to-head competition that is broadcast on WHRO. This year, students representing 63 area schools as local Spelling Bee Champions, [including St. Clare Walker Middle School](#), competed. It's important to note that The Virginian-Pilot Spelling Bee LIVE on WHRO won a bronze Telly Award this year in the General Television – Live category.

*Regional Savings/Value: \$32,075.00*

*Middlesex Savings/Value<sup>H</sup>: \$145.00*

**4. Great Computer Challenges – Junior and Senior** are joint projects of WHRO and ODU, and are competitive opportunities for students in grades K-12 to demonstrate their skills in various computer applications and computer programming, including Graphic Design, Video Editing, Desktop Publishing, Music Composition, Desktop Presentations, Web Design, Internet Scavenger Hunt, Integrated Applications, Scientific Non-Business Programming, Visual Programming, CAD, and JAVA. This year, 2 new categories were added: Cybersecurity for Level 4 and Visual Programming/Block Coding Using ScratchJr for Levels 1 and 2. In addition, in connection with the Batten Environmental Education Initiative, environmental themes were incorporated into the Desktop Publishing, Graphic Design, Music, and Video Editing categories in the Senior Division and into the Desktop Presentations, Graphic Design, and Video Editing categories in the Junior Division. More than 160 teams participated in the Challenges this year, including [3 Middlesex](#) teams.

*Regional Savings/Value: \$6,200.00*

*Middlesex Savings/Value<sup>I</sup>: \$120.00*

*Middlesex Participants and Winners:*

School	Teacher Sponsor(s)	Grade Level	Category	Award
St. Clare Walker M.S.	Daphne Guill	Level 3 - Grades 6-8	Music Composition	3rd Place
St. Clare Walker M.S.	Daphne Guill	Level 3 - Grades 6-8	Music Composition	Honorable Mention
St. Clare Walker M.S.	Daphne Guill	Level 3 - Grades 6-8	Music Composition	Honorable Mention

**5. General PBS Programming** with full educational rights, such as American Experience, Nova, Nature, etc., is delivered each week on our main channel WHRO 15.1 and can be recorded and used in the classroom. Detailed local usage figures are unavailable, but according to national statistics, 30% of teachers use PBS programs in their classrooms.

*Regional Savings/Value: \$204,720.00*

*Middlesex Savings/Value<sup>J</sup>: \$920.00*

**6. Local Educational Video Productions** included **VDOE Performance Based Assessment Institute** and **Best Practice Classroom** segments; 13 **VDOE Open Education Resources** segments; **Virginia Society of Technology Educators (VSTE) Conference** live streaming of three keynote sessions; the **WHRO Young Storytellers Awards Show** and **Reception** that recognizes and features the winners of the PBS KIDS Writers Contest; one **GreenBeat** segment entitled “Get Outside” designed to encourage good environmental stewardship habits starting at an early age; and seven **Virginia Commission on Civic Education** segments. **New Education Now** segments featuring successful school practices were also produced for Franklin, Mathews, Middlesex, Poquoson, Williamsburg-James City County, and York and **existing Education Now** segments for Chesapeake, Gloucester, Isle of Wight, Norfolk, Suffolk, and Virginia Beach were updated with a new open and close. The new “open” shows a map of our region and highlights the city being covered and the new “close” is tagged with a graphic and a voice-over that says, “WHRO is owned by nineteen school divisions and supported by people like you.” All of the segments aired throughout the year on WHRO TV15, WHRO WORLD and WHRO CREATE.

*Regional Savings/Value: \$93,555.00*

*Middlesex Savings/Value<sup>K</sup>: \$420.00*

**7. Local WHRV Radio productions** **Another View** and **HearSay with Cathy Lewis**<sup>4</sup> featured 10 programs on topics of interest to educators in 2017-2018, and **Educationally Speaking**, a documentary podcast series, examined the current state of education and featured local interviews about a different topic each week. This year, WHRV launched **Writer’s Block** that showcases local authors, story tellers, poets, musicians, and spoken word artists presenting live for future broadcast and podcast. In 2017-2018, WHRO hosted two Student Editions of Writer’s Block. The first Student Edition, held on October 13, 2017, featured the creative writings and presentations by students in grades 5-12. Nearly sixty students from Chesapeake, Newport News, Norfolk, Suffolk, Virginia Beach, and Williamsburg-James City County submitted entries to participate. A second Student Edition was held on May 25, 2018, and seventy-five students from Hampton, Newport News, Norfolk, Suffolk, and Virginia Beach submitted entries.

*Regional Savings/Value: \$58,730.00*

*Middlesex Savings/Value<sup>L</sup>: \$265.00*

**8. National Public Radio (NPR)** regularly covers education topics within major shows such as Morning Edition, All Things Considered, Talk of the Nation, etc. In 2017-2018, nearly 300 stories touched on education topics, representing approximately 2% of the total number of stories covered.

*Regional Savings/Value: \$10,395.00*

*Middlesex Savings/Value<sup>M</sup>: \$45.00*

<sup>4</sup> Please see the “Education Topics on Another View, Educationally Speaking, and HearSay in 2017-2018” section starting on page 22 for complete descriptions of each of the programs.

**9. WHRO Education Staff** presented at the following **Local, Regional, State, or National Events**: Dinwiddie County Instructional Conference; Franklin County Public School's Professional Development Day; #GoOpen Regional Summit; Suffolk College and Career Readiness Fair; Suffolk Excellence in Education Conference; Virginia Association for Supervision and Curriculum Development Southwest Virginia Regional Conference; Virginia Association for Supervisor and Curriculum Development Conference; Virginia Association of Museums Conference; Virginia Association of Science Teachers Professional Development Institute; Virginia Association of Secondary School Principals Annual Conference; Virginia Association of Teachers of English Annual Conference; Virginia Children's Engineering Convention; Virginia Conference for Social Studies Educators; Virginia School Boards Association; Virginia Society for Technology in Education (VSTE) Annual Conference; VSTE Brainstorm Regional Conference; VSTE LearnerPalooza; VSTE/VDOE Leading Ed Forum 2017; and York County School Division Teacher Convocation.

In addition, WHRO Education Staff conducted training for the following non-HRETA school divisions: Amelia County; Hanover County; Lee County; Montgomery County; and Surry County.

**10. Other WHRO Education Contract Work** – At times, WHRO enters into contracts or trade agreements with other local, regional, or national organizations to produce educational content which may have value to the HRETA schools. This year, WHRO continued a trade agreement with the **Virginia School Board Association (VSBA)** to tape their regional **Hot Topic** forums and **Legislative Advocacy** session and to post-edit them into training segments that can be viewed by educators who were unable to attend the actual event. In addition, this year work continued on the Williamsburg Health Foundation Decisions production and the 2019 Commemoration's Our American Story student contest. **Decisions** is an immersive, 360-degree, alcohol and substance abuse prevention video where middle school students make choices and can view the results of those choices. **Our American Story** is a contest for teams of students in grades 8 through 12 designed to foster creativity, cooperative learning, critical examination, and discussion among our country's next generation of leaders. Students assemble their own team, choose one of three video prompts (Democracy, Diversity, or Opportunity) as the inspiration for their project, and then upload 3-D animations, original dance or music pieces, documentaries, plays, or podcasts to a digital gallery where a team of judges will score the submissions. Awards range from \$500.00 to over \$10,000.00. The contest begins on August 7, 2018, and concludes on November 20, 2018. Winners will be announced in January 2019.

**11.** In March 2017, the three-year **Batten Environmental Education Initiative** officially launched with a \$3 million gift from Jane Batten. In 2017-2018 we:

- Delivered, free-of-charge, a new, SOL-aligned Online Earth Science course that is also aligned to the Foundational Concepts for Environmental Literacy that were released in 2014. (Please see the Student Services section for details.)
- Began production of a new Video Earth Science course that is also aligned to the Virginia SOL and the Foundational Concepts for Environmental Literacy. (Please see the Student Services section for details.)
- Delivered the first of 15 GreenBeats, "Schoolhouse Rock!-like" animated video segments that are designed to instill good environmental stewardship practices at an early age. (Please see the Local Educational Video Productions section above for details.)
- Integrated Environmental themes into the Great Computer Challenge problems and added an Environmental category to the PBS KIDS Writers Contest. (Please see the Great Computer Challenges – Junior and Senior and PBS KIDS Writers Contest sections above for details.)
- Acquired hundreds of environmental education learning objects for use by teachers at all levels including Kids in the Garden (15/6 minute segments); Green Economy: The Future of Our World (30/20 minute segments); Creature Features (20/5 minute segments); Underwater Creature Features (7/7 minute segments); Green Science: Helping Planet Earth (5/22 minute segments); Chesapeake Bay Foundation (10 guides, 28 links, 8 PDFs); Environmental Education SOL Playlists (55 playlists); Hampton Roads Sanitation District (7 videos, 4 lesson plans); PBS KIDS Environmental Playlists (131 links); and Science Museum of Virginia (3 videos). All of this content is available via eMediaVA.
- Created High School, SOL-aligned lessons for schools to use in connection with Catch the King, the citizen scientist event spearheaded by The Virginian-Pilot.



## Families and Early Learners

The Ready To Learn initiative is an innovative partnership between Congress, the U.S. Department of Education, the Corporation for Public Broadcasting, PBS, and local public media stations – including WHRO – and many community-based partners. Targeted toward America's most at-risk kids, but made available to all families and children across the country, Ready To Learn's high-quality transmedia content is unparalleled in its impact, value, and necessity. The math- and literacy-based educational programming created by Ready To Learn provides families with effective, non-commercial content that helps prepare kids for success in school. Stimulating online games, skill tracker websites, and other learning resources for children, parents, caregivers, and teachers are also provided.

Combined, WHRO delivered over 12,000 hours of the best high-quality **Educational Early Childhood Programming** last year on WHRO KIDS 15.3 and on WHRO 15.1, free-of-charge to every household in greater Hampton Roads. WHRO KIDS also provides a 24/7 streaming service that can be used on any mobile device.

The **WHRO KIDS e-newsletter** was distributed monthly to 14,000 people who identified WHRO as their public station and also follow PBS KIDS. It features PBS KIDS Playtime Pad winner announcements, upcoming programs and events for children, information on upcoming programs that might interest parents, educational activities in which parents and their children can engage, educational content related to national holidays, and an “App of the Month.”

The **WHRO KIDS Web Site** ([www.whrokids.org](http://www.whrokids.org)) features PBS KIDS content including the 24/7 stream, games, and apps, among other services. The Learn section of the website pulls content from eMediaVA for children in grades K-5. Quarterly giveaway contests ask parents to answer a question, such as tell us your child's favorite PBS character and why, to be entered to win prizes like PBS KIDS Playtime Tablets and PBS KIDS Plug and Play devices. We also post local event information to let our families know when our Raising Readers Literacy Van and our STEM Van are out and about.

Initiatives this year focused on Science, Technology, Engineering, and Mathematics (STEM) and included the **WHRO STEM Van**, **PBS KIDS ScratchJr Coding Camps**, and **PBS KIDS ScratchJr Professional Development** for teachers. The STEM Van was funded through a local foundation and a corporate underwriter; the initial PBS KIDS ScratchJr Coding Camp and teacher professional development were made possible by grants from PBS; and additional coding camps were funded by local foundations.

The **WHRO STEM Van** is equipped with 20 iPads, 12 Chromebooks, and 2 touch screen monitors – all purchased with CPB funds – and features a pop-up makerspace. The WHRO STEM Van made more than 100 visits to local festivals and events and to Title I kindergarten and 1st grade classrooms. During classroom visits, a certified teacher and WHRO staff member worked with local teachers to determine topics and develop special lessons that included a book reading, a hands-on makerspace activity, and a PBS KIDS game to play on iPads and Chromebooks. WHRO staff use curriculum materials developed by PBS KIDS (including ScratchJr), Odd Squad “Be The Agent,” and 50 elementary engineering lessons developed by the Virginia Children's Engineering Council to teach elementary students basic engineering skills in the pop-up makerspace.

**Super WHY! Reading Camps** are multi-day, interactive learning adventures that show campers ages 4-5 the power of reading and motivate them to play with letters, sounds, and words through a comprehensive curriculum developed by noted literacy experts. Twenty-three camps reaching more than 450 children have been conducted since the initiative began in 2008, when WHRO conducted its first Super WHY! Reading Camp at Fort Story Army Base Child Development Center and participated in a study by Florida State University's Center for Reading Research. Campers showed gains in all of the literacy skills presented in the program including an 84% gain in phonics skills and a 139% gain in word recognition skills. This year, Super WHY! Reading Camps for rising kindergartners were held at Children's Harbor in Portsmouth for 14 students, at Ida Barbour Early Learning Center in Portsmouth for 18 students, and the Children's Center in Suffolk for 14 students.

**PBS KIDS ScratchJr Coding Camps** are one-, three- or five-day afterschool programs where 1st, 2nd, and 3rd grade students are introduced to creative coding through digital and physical activities and are given the opportunity to create their own stories, games, and collages with the PBS KIDS ScratchJr tablet app. Thirty-one different camps were held at Central Library, Dr. Clarence Cuffee Library, and Indian River Library, Chesapeake; Middlesex Elementary School, Middlesex (2); Hidenwood Elementary School and Yates Elementary School, Newport News; Bayview Community Center, Captain's Quarters, and East Oceanview Community Center, Norfolk; Elephant's Fork Elementary School (2), Morgan Memorial Library, Nansemond Parkway Elementary School (4), North Suffolk Library, and Northern Shores Elementary School, Suffolk; Sussex Elementary School, Sussex; Waller Mill Elementary School, Williamsburg (3); and various other locations across the region.

**Martha Speaks Reading Buddies**, now in its ninth year, has reached more than 2,500 Title I elementary school students in the region. Big Buddies (4th and 5th graders) and Little Buddies (kindergartners and 1st graders) meet for weekly sessions where together they watch a Martha Speaks video; read the selected book; talk and play games; and write in the Reading Buddies Journal. Big Buddies receive a guide and books to practice before each session. Each Little Buddy takes home a book and a Family Activity Booklet after each session. They also receive a Certificate of Achievement at the end of the program. The Big Buddies receive a chapter book called *Because of Winn Dixie* to take home at the end of the sessions. In addition to the kindergartners and 1st graders mastering 32 new vocabulary words, teachers report that 4th and 5th grade participants take their leadership role very seriously, resulting in improved reading skills and a decrease in discipline problems. This year, more than 300 students participated in the Reading Buddies program at Carver Elementary School, Newport News; Richard Bowling Elementary School, Norfolk; and College Park Elementary School, Virginia Beach.

**WHRO's Raising Readers Literacy Van** is a cheerful, brightly colored vehicle featuring children's favorite PBS characters that tours throughout our broadcast region. A special presentation that includes a motivational speech about why it's important to practice reading every day, storytelling, and expressive literacy activities covering a variety of Pre-K Comprehensive Standards and Virginia Standards of Learning, is specifically given to students in Pre-K through 1st grades in an effort to motivate them to become lifelong readers.

Children also take a reader's pledge – a commitment that they will start reading every day. After they have taken the pledge, they are then eligible to tour the inside of the van which is stocked with books that are given directly to children in high need situations and/or given to each classroom library that the van visits. During 2017-2018, the van made more than 50 visits in the area.

**Raising Readers Library Corners** are fully decorated with PBS KIDS décor and have books, online games, and a wealth of literacy activities for children to use when visiting the library. Our first corner was established at the Dr. Clarence Cuffee Library in Chesapeake. The program has now grown to include 8 local libraries including Hampton Main Library, Hampton; Park Place Library, Norfolk; P. B. Young Elementary School Library, Norfolk; Cradock Library, Portsmouth; Main Library, Portsmouth; Bayside Public Library, Virginia Beach; and Norge Elementary Library School, Williamsburg-James City County.

**Super Reader Schools** receive additional services from WHRO. These Title I schools receive professional development, parent trainings, family literacy nights, resources, and PBS KIDS Raising Reader Van visits. Current WHRO Super Reader Schools include Tyler Elementary, Hampton; Carver Elementary School, Newport News; James Monroe, P.B. Young, Richard Bowling, Sewells Point and St. Helena Elementary Schools, Norfolk; Booker T. Washington Elementary School, Suffolk; and College Park Elementary School, Virginia Beach.

**Anytime Is Learning Time Training** helps parents identify everyday teachable moments. All parents attending these trainings receive Raising Readers Tip Sheets and free First Books for their children.

School Division Outreach keeps Superintendents and school representatives up-to-date on the initiative and activities. Raising Readers resources and materials are also regularly provided to Title I schools in all 19 of WHRO's owner-member school divisions through this outreach.

**PBS KIDS Island Website** ([www.pbskids.org/island](http://www.pbskids.org/island)) is an interactive website that gives teachers and parents the ability to measure children's literacy progress by showing the skills children have mastered and what skills they still need to practice. The site includes numerous games children can play and win prizes to advance to the next level. The site features characters from PBS children's programs.

**PBS KIDS** ([www.pbskids.org](http://www.pbskids.org)) is an engaging multimedia destination specifically created for kids ages 2-8. With fun, quirky settings full of surprises, this site empowers kids to discover themselves, define the diverse world around them, explore new relationships, and embrace a love of learning. The site features popular age appropriate PBS series including Sesame Street, Super WHY!, Word World, Curious George, Sid the Science Kid, Dinosaur Train, The Electric Company, WordGirl, Martha Speaks, Peg + Cat, Arthur, Fetch, CyberChase, etc. Video clips, games, activities, and apps focused on math and using camera phones, augmented reality games, and behind-the-scenes features are also available.

Tens of thousands of **First Books** have been distributed over the past 20 years to area children who would not otherwise own books. Grants, local foundations, and WHRO's Leadership Circle provide support to allow children in challenging circumstances to start their own libraries. Books are distributed after parent and provider trainings, after Raising Reader van visits, and at other community events. People from across Hampton Roads donated more than 750 books this year during the WHRO KIDS Book Drive.

Each year, WHRO is a major sponsor of the Virginia Children's Festival. In the past we've brought major headline acts such as Maria and Elmo from Sesame Street, Mr. Steve Songs, and Shock from The Electric Company. In addition, WHRO also secures PBS Costume Characters such as Super WHY!, Curious George, Word Girl, and Daniel Tiger, to name a few; provides hands-on computer labs and interactive whiteboards where children can experience all of the interactive, engaging, educational content now available online; and distributes hundreds of First Books.

Overall in 2017-2018, nearly 28,000 families, 1,300 caregivers/teachers, and 30,000 children participated in one or more of these activities. In addition, we distributed more than 3,300 First Books and 12,450 activity booklets to children most at need.

#### *Middlesex Participants:*

*A PBS KIDS ScratchJr Coding Camp was held at Middlesex Elementary School. A professional development event for more than 40 teachers was also held at Middlesex Elementary School and included a WHRO STEM Van visit.*

*Total Regional Savings/Value: \$248,500.00  
(For all items above)*

*Total Middlesex Savings/Value<sup>N</sup>: \$3,585.00  
(For all items above)*

<b>Middlesex County Public Schools</b> <b>Return on WHRO Investment</b> <b>2017-2018</b>
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WHRO directly impacts:

- 1) Educators by providing ongoing, sustained, high-quality teacher training; leading edge, technology-based instructional resources; and regional opportunities for recognition.
- 2) Students by providing online courses; leading-edge, on-demand, video resources; educationally relevant competitions; and regional opportunities for recognition.
- 3) Adult learners by providing a variety of workforce development and GED programs and services.
- 4) Families by providing the highest quality children's programming 24 hours per day, 7 days per week, as well as a variety of online resources and face-to-face, hands-on early childhood workshops.

In summary, WHRO educational efforts directly affect not only the schools' bottom lines, but also the quality of education for every single teacher, student, adult learner, and family in Hampton Roads. Exemplary educators and initiatives are regularly publicized on-air, on-line, and in-person.

Middlesex Annual Investment in WHRO:

Annual Assessment	\$2,336.00
C.I.I. Annual Dues	\$1,500.00

**Total Annual Investment\* \$3,836.00**

*\*Additional product/service specific revenue (i.e., LMS group purchases, etc.) is included in the saving/value calculations below.*

Direct Value/Savings:

eMediaVA <sup>sm</sup> Operation and Content Acquisition	\$2,870.00
eMediaVA <sup>sm</sup> Trainings	\$4,500.00
Special Topic Forums	\$0.00
Other WHRO Education Professional Development	\$0.00
WHRO Education Online Course Development	\$645,850.00
LMS Group Purchase	\$0.00

**Total Direct Annual Value/Savings \$653,220.00**

**Middlesex Direct Return on Investment \$170.30 to \$1.00**

Additional Value/Savings:

WHRO KIDS	\$1,150.00
The Virginian-Pilot Spelling Bee	\$145.00
Great Computer Challenges (Junior and Senior Divisions)	\$120.00
General PBS Programming	\$920.00
Local Educational Video Productions	\$420.00
Local Educational Radio Productions	\$265.00
General NPR Programming	\$45.00
Families/Early Learners	\$3,585.00

**Total Additional Annual Value/Savings \$6,650.00**

**Total Direct and Additional Annual Value/Savings \$659,870.00**

**Total Middlesex Return on Investment \$172.00 to \$1.00**

## Value/Savings Calculations

- A Comparable service value (\$750.00 per building) multiplied by the number of buildings in each HRETA division plus content licensing fees (\$137,865.00) allocated across HRETA owners according to relative size.
- B Number of division registrations multiplied by an average course registration fee of \$150.00.
- C Number of division registrations multiplied by an average course registration fee of \$150.00.
- D Number of division registrations multiplied by an average course registration fee of \$150.00.
- E 2017-2018 WHRO online course development costs to refresh courses that each division would have had to pay on its own (\$645,850.00) multiplied by the number of WHRO owner school divisions (19) to yield the true regional savings (\$12,271,150.00). Also includes trainings and meetings with individual divisions at \$1,500.00 and \$740.00 each, respectively.
- F Regional virtual school general support (\$30,000.00), regional test environment (\$10,245.15), technical support, if applicable (\$1,617.65), and fully online licenses (\$15.09 each) if applicable, minus cash paid by the individual HRETA owner division.
- G Total annual operational cost (\$255,000.00) of WHRO KIDS allocated across HRETA owners according to relative size.
- H The Virginian-Pilot Spelling Bee production costs (\$32,075.00) allocated across HRETA owners according to relative size, if participating.
- I Number of division teams multiplied by HRETA member entry fee discount.
- J Annual WHRO PBS dues (\$1,023,563.00) multiplied by 20% (conservative estimated educational percentage of program usage) allocated across HRETA owners according to relative size.
- K WHRO Young Storytellers production costs (\$12,440.00) plus VDOE Performance Based Assessment Institute segments production costs (\$6,100.00) plus Best Practice Classroom segments production costs (\$1,500.00) plus VDOE Open Education Resource segments production costs (\$7,500.00) plus VSTE Conference Keynote Sessions live streaming production costs (\$7,100.00) plus Virginia Commission on Civic Education segments production costs (\$7,500.00) plus GreenBeat production costs (\$9,000.00) plus Education NOW production and broadcast costs (\$42,415.00) all allocated across HRETA owners according to relative size.
- L Average Another View and HearSay with Cathy Lewis episode production cost (\$4,150.00) plus Writer's Block episode production costs (\$5,240.00) plus Educationally Speaking podcast production cost (\$450.00) multiplied by the number of episodes or podcasts of interest to educators allocated across HRETA owners according to relative size.
- M Annual WHRO NPR dues (\$519,766.00) multiplied by 2% (based on NPR statistics regarding the number of programs directly related to Education) allocated across HRETA owners according to relative size.
- N Number of training sessions conducted multiplied by the average cost per session (\$750.00/day) plus number of Super WHY! Camps conducted multiplied by cost to conduct them (\$5,000.00) plus number of PBS KIDS ScratchJr Camps conducted multiplied by cost to conduct them (\$1,000.00-\$5,000.00) plus number of new Super Reader Schools multiplied by cost to equip them (\$2,600.00) plus number of appearances or events (\$250.00-\$500.00/each) throughout the region plus the number of PBS characters multiplied by the costs to obtain and employ them (\$1,000.00) plus the cost of materials distributed.

## eMediaVA Learning Objects Produced or Acquired by WHRO in 2017-2018

### **Bill Nye the Science Guy (73 videos)**

Amphibians; Animal Locomotion; Archaeology; Architecture; Atmosphere; Balance; Biodiversity; Birds; Blood & Circulation; Bones & Muscles; Brain; Buoyancy; Caves; Cells; Comets & Meteors; Communication; Deserts; Do-It-Yourself Science; Earth's Seasons; Electrical Current; Energy; Erosion; Evolution; Eyeball; Farming; Fish; Flight; Flowers; Fluids; Food Web; Forensics; Forests; Friction; Garbage; Genes; Germs; Heart; Heat; Human Transportation; Insects; Invertebrates; Lakes & Ponds; Light & Color; Light Optics; Mammals; Marine Mammals; Momentum; Ocean Exploration; Ocean Life; Outer Space; Patterns; Pollution Solutions; Populations; Pressure; Probability; Pseudoscience; Reptiles; Respiration; Rivers & Streams; Rocks & Soil; Science of Music; Skin; Smell; Space Exploration; Spiders; Spinning Things; Static Electricity; Structure; Time; Volcanoes; Water Cycle; Waves; Wetlands

### **Bruton Parish (47 videos)**

Church Tour; Church Interior; Church Yard #1; Church Yard #2; Church Yard #3

History 1-Reformation Roots to the Church in Jamestown; History 2-Pocahontas and John Rolfe to New Parishes; History 3-Lord Dunmore to Pew Doors/Martha Custis; History 4-Alexander Spotswood; History 5-Virginia and Spotswood to Spotswood as Governor and Entrepreneur; History 6-From Church of England to Episcopal to Day of Fasting, Humiliation, and Prayer; History 7-Naming and Formation of Bruton Parish Church to the Vestry; History 8-Religion in the Colonies to the Great Awakening; History 9-George Whitefield to Effect of No Bishops in America; History 10-The Great Awakening to Balancing Church and State; History 11-Rectors of Bruton to Religious Freedom

Artifacts: Chris Epperson Reading the General Thanksgiving from the 1662 Prayer Book; Chris Epperson – Mission of Bruton Parish Church; Baptisms of Slaves; More Burials including Rev. Doyley; Bibles in America after the Revolution – Aitken; Architectural Fragments – Capital and Pilaster; Architectural Fragment – Paneling, 1752; Tower Clock; 1840 Altar Chairs; Bishop's Chair; American Book of Common Prayer; Canons – Church Law; Bishop James Madison, Dr. Wilmer and Dr. Bracken (rectors of Bruton), Bishop Samuel Seabury (CT), Bishop Samuel Prevost (NY), Bishop Wm. White (PA); Vestry; Church and the Newspaper; Lyndon Johnson at Bruton; James Blair; George Wythe; WAR Goodwin; Thomas Millington Watercolor of Bruton; John Millington – Father; Effect of Revolution on Church; 1840-1878, Renting and Selling Pews; Families with Pews: Armistead, Morecock, Dr. Garrett, Mrs. Galt, Savage; Communicants (those who took Holy Communion); Other families: Hankins, Anderson, Vest, Lemuel Bowden (Union sympathizer), Dr. Peachy, Bucktrout (funeral service)

### **Chesapeake Bay Foundation (10 guides, 28 links, 8 PDFs)**

Guides: Chesapeake Classrooms Teacher Guide; MWEE Guide – Meaningful Watershed Educational Experience Guide; An Educator's Guide to the CBF Water Quality Interactive Maps; Schoolyard Report Card; Learn Outside – How to Start an After School Environmental Club; Fix Your Schoolyard Bare Spots; Build Your Own Rain Barrel; Build Your Own Rain Garden; Bay-sic Ratios; Know Your Fish

PDFs: The Dead Zone; Nutrient Pollution; Troubling Trends; Oyster Population; Nitrogen Loads; Ecological Identity; Chesapeake Bay Watershed; Chesapeake Classrooms Issues Investigator Planning Worksheet

Links: Chesapeake Bay Glossary; Chesapeake Bay Maps: Geography – 9 maps, Pollution – 6 maps, Land Use – 4 maps, Aquatic Life – 3 maps, Economic Importance – 1 map; Osprey Tracking Map; Storm Drain Stenciling; State of the Bay Report; Polluted Runoff - The Gray Funnel of the Chesapeake

### **Civic Education (7 videos)**

The Importance of Civic Education in Today's Society; Election Analysis; Practical Civic Engagement for Teachers; How Virginia Has Changed and How it Hasn't; Civic Commission's Definition of Service Learning & the Introduction to Case Study on Project-Based Education; Using Data to Analyze the Political Landscape; Dorothy McAuliffe, First Lady

### **Creature Features (20/5 minute segments)**

Life science concepts addressed throughout the segments include habitats, body parts, adaptation, migration, ecosystems, and the life cycle.

### **Environmental Education SOL Playlists (55 playlists)**

Elementary School Standards (K): Environmental Literacy; Elementary School Standards (K): Environmental Literacy, Documents; Elementary School Standards (K): Environmental Literacy, Interactives & Texts; Elementary School Standards (K): Environmental Literacy, Videos; Elementary School Standards (1): Environmental Literacy; Elementary School Standards (1): Environmental Literacy, Documents; Elementary School Standards (1): Environmental Literacy, Interactives; Elementary School Standards (1): Environmental Literacy, Links; Elementary School Standards (1): Environmental Literacy, Texts; Elementary School Standards (1): Environmental Literacy, Videos; Elementary School Standards (2): Environmental Literacy; Elementary School Standards (2): Environmental Literacy, Documents; Elementary School Standards (2): Environmental Literacy, Interactives; Elementary School Standards (2): Environmental Literacy, Texts & Links; Elementary School Standards (2): Environmental Literacy, Videos; Elementary School Standards (3): Environmental Literacy, Elementary School Standards (3): Environmental Literacy, Documents; Elementary School Standards (3): Environmental Literacy, Interactives, Links, Texts; Elementary School Standards (3): Environmental Literacy, Videos; Elementary School Standards (4): Environmental Literacy; Elementary School Standards (4): Environmental Literacy, Documents; Elementary School Standards (4): Environmental Literacy, Interactives, Links, Texts; Elementary School Standards (4): Environmental Literacy, Videos; Elementary School Standards (5): Environmental Literacy; Elementary School Standards (5): Environmental Literacy, Documents & Links; Elementary School Standards (5): Environmental Literacy, Videos

High School Standards (BIO): Environmental Literacy; High School Standards (BIO): Environmental Literacy, Audio; High School Standards (BIO): Environmental Literacy, Interactives & Links; High School Standards (BIO): Environmental Literacy, Texts & Documents; High School Standards (BIO): Environmental Literacy, Videos; High School Standards (ES): Environmental Literacy; High School Standards (ES): Environmental Literacy, Audio; High School Standards (ES): Environmental Literacy, Interactives; High School Standards (ES): Environmental Literacy, Links; High School Standards (ES): Environmental Literacy, Texts & Documents; High School Standards (ES): Environmental Literacy, Videos; High School Standards (PH): Environmental Literacy; High School Standards (PH): Environmental Literacy, Audio; High School Standards (PH): Environmental Literacy, Documents; High School Standards (PH): Environmental Literacy, Interactives & Links; High School Standards (PH): Environmental Literacy, Videos; Middle School Standards (6): Environmental Literacy

Middle School Standards (6): Environmental Literacy, Audio; Middle School Standards (6): Environmental Literacy, Documents; Middle School Standards (6): Environmental Literacy, Images; Middle School Standards (6): Environmental Literacy, Interactives; Middle School Standards (6): Environmental Literacy, Links; Middle School Standards (6): Environmental Literacy, Texts; Middle School Standards (6): Environmental Literacy, Videos; Middle School Standards (LS): Environmental Literacy; Middle School Standards (LS): Environmental Literacy, Audio; Middle School Standards (LS): Environmental Literacy, Interactives; Middle School Standards (LS): Environmental Literacy, Texts & Links; Middle School Standards (LS): Environmental Literacy, Videos

### **GoOpenVA (12 videos)**

What is OER?; GoOpen Ambassador; GoOpenVA; Getting Started; Finding Good Resources; Professional Development; Using OER in the Classroom; From Consumers to Contributors; Converting Information into Intelligence; Future Learning Model; What Problem Do You Want To Solve?; GoOpenVA Keynote Speaker

### **Green Economy: The Future of Our World (30/20 minute segments)**

From wind power to green medicine, these segments feature practical ways the green economy is developing.

### **Green Science: Helping Planet Earth (5/22 minute segments)**

From mechanical and electrical engineering, to microbiology, meteorology and geo-physics, the fields of science are melding and expanding in an attempt to meet growing demands.

### **Greener & Gold (1 video)**

Greener & Gold – the Greening of a College Campus

### **Guardians of Jamestown (8 videos, 1 playlist)**

Videos: Guardians of Jamestown: 1619 Introduction; Guardians of Jamestown, 1619: Prologue; The Guardians of Jamestown: 1619 - The Arrival of the English Women; The Guardians of Jamestown: 1619 - The Arrival of the First Africans to Virginia; The Guardians of Jamestown: 1619 - The Influence of Tobacco on Jamestown; Guardians of Jamestown: 1619 - The First English Thanksgiving in Jamestown; Guardians of Jamestown: 1619 - The First General Assembly Meeting in Virginia; Guardians of Jamestown, 1619: Epilogue

Playlist: Guardians of Jamestown: 1619

### **Hampton Roads Sanitation District (7 videos, 4 lesson plans)**

Videos: Beyond The Drain; What Do You Know...Series – Water-Part One; What Do You Know...Series – Water-Part Two; What Do You Know...Series – Water-Part Three; Invest In The Future Of Water; Creating Jobs Saving The Bay; HRSD – Hall Of Fame; Virtual Tour Of VIP  
Lesson Plans: Amazing Aquifers!; CSI: Cool Science Investigations of Water (1); CSI: Cool Science Investigations of Water (2); Washing Water

### **Kids in the Garden (15/6 minute segments)**

Hands-on horticulture. These segments encourage environmental stewardship and promote a healthy lifestyle while the kids enjoy discovering the science of our natural world.

### **King Tide (1 video)**

How To Use the King Tide App

### **Lafayette Wetlands Partnership Neighborhood Wetland Stewardship (1 guide)**

Lafayette Wetlands Partnership Neighborhood Wetland Stewardship: Project Management Manual (4th Ed.)

### **Magic School Bus (18 videos)**

The Magic School Bus: All Dried Up; The Magic School Bus: For Lunch; The Magic School Bus: Gains Weight; The Magic School Bus: Gets Eaten; The Magic School Bus: Gets Swamped; The Magic School Bus: Goes Cellular; The Magic School Bus: Goes On Air; The Magic School Bus: Goes to Mussel Beach; The Magic School Bus: Hops Home; The Magic School Bus: In A Beehive; The Magic School Bus: In the Haunted House; The Magic School Bus: Plays Ball; The Magic School Bus: Sees Stars; The Magic School Bus: Shows and Tells; The Magic School Bus: Spins A Web; The Magic School Bus: Takes a Dive; The Magic School Bus: Under Construction; The Magic School Bus: Ups and Downs

### **PBS KIDS Environmental Playlists (131 links)**

Animals, Dinosaurs, and Ecosystems-Grade Level: PreK-1

19 subtopics with links to online games and/or activities: Animals & Their Characteristics; Animals & Their Diets; Animals & Their Habitats; Animals & Their Habitats; Animal Life Cycles; Animal Tracks; Bees; Birds & Migration; Butterflies; Butterflies II; Camouflage; Different Dinosaurs; Different Dinosaurs II; Different Ecosystems - Wetlands, Rainforests, Coasts, Parks, Farms; Dinosaur Fossils; Mangrove Ecosystem; Sloths; Spiders; Whales

Animals, Dinosaurs, and Ecosystems-Grade Level: PreK-3

32 subtopics with links to online games and/or activities: Animals, Their Habitats, & Their Diets; Animals, Their Habitats, Their Diets, & Their Predators; Animal Tracks; Armadillos & Stegosauri; Australia's Native Species; Bats, Butterflies, & Hummingbirds - & Their Dependence On Flowers; Borneo Jungle Ecosystem; Brachiosaurus; Chameleons; Different Animals; Different Animals From All Around The



World; Different Animals From All Around The World; Different Dinosaurs; Deinonychus & Tigers; Dinosaur Animal Contemporaries & Ecosystems; Dinosaur Fossils; Dinosaur Fossils; Hermit Crabs; Hibernation; Jungle Animals - Snakes, Frogs, & Monkeys - & How They Move; Local Ecosystems & Environments; Local Ecosystems & Exploring Them; Mangrove Ecosystem; Mountaintop Ecosystem; Nocturnal Animals; Ornithomimus & Ostriches; Owls; Prehistoric Ecosystems; Rhinos & Triceratops; Silkworms; Spinosaurus; Velociraptor; Wildlife In Different Ecosystems - Desert, Ocean, & Tundra

Animals, Dinosaurs, and Ecosystems-Grade Level: K-3

26 subtopics with links to online games and/or activities: Animals & Plants; Animals That Produce Slime; Australian Outback Ecosystem; Birds & Their Habitats; Central American Rainforest Ecosystems & Coral Reef Ecosystems; Decomposers; Desert Ecosystem; Desert Ecosystem; Different Animals & Their Characteristics; Different Dinosaurs, Their Respective Time Periods, & Their Diets; Different Ecosystems - Tundra, Forest, Grasslands, Etc.; Different Types Of Animals In The City; Dinosaurs; Dinosaur Names; Ecosystems & Food Webs; Ecosystems & Food Webs; Forest Ecosystem; Invasive Species; Jungle Ecosystem; Local Birds & Their Diets; Mangrove Ecosystem; Migratory Birds; Mountaintop Ecosystem; Pre-Historic Fossils; Rainforest Ecosystem; Savannah Ecosystem

Being Green At Home (Recycling, Reusing, etc.)-Grade Level: PreK-3

9 subtopics with links to online games and/or activities: Books For Kids On The Environment; Composting; How To Help The Environment From Home; Littering; Non-Renewable Resources & Recycling; Recyclable & Compostable Materials, Pollution; Recycling & Reusing; Recycling & Reusing Old Clothes; Turning Off Lights, Using Electricity Wisely

Being Green At Home (Recycling, Reusing, etc.)-Grade Level: K-3

12 subtopics with links to online games and/or activities: Carbon Footprints; Composting; Environmental Facts, Modern Science; Environmental Films For Kids; Environmental Statistics; How To Help The Environment From Home; How To Help The Environment From Home II; How To Help The Environment From Home III; How To Help The Environment From Home IV; Garbage & Recycling; Recycling; Reusing

Marine Biology-Grade Level: PreK-1

1 subtopic with links to online games and/or activities: Habitats In Coral Reefs

Marine Biology-Grade Level: PreK-3

5 subtopics with links to online games and/or activities: Bioluminescence & Deep Sea Life; Characteristics Of Deep Sea Fish; Information About Specific Kinds Of Fish; Invasive Species, Kelp Forest Life; Pond Life

Marine Biology-Grade Level: K-3

2 subtopics with links to online games and/or activities: Marine Animals; Ocean Ecosystem

Natural Resources & Weather-Grade Level: PreK-3

2 subtopics with links to online games and/or activities: Droughts; Hurricanes

Natural Resources & Weather-Grade Level: K-3

5 subtopics with links to online games and/or activities: Air & Water; Earthquakes; Forest Fires; Future Of The Environment - Erosion, Pollution, etc.; Nature Around Your Home

Natural Resources & Weather-Grade Level: 1-3

2 subtopics with links to online games and/or activities: Oceans, Gyres, Difference Between Fresh & Saltwater, Currents, Marine Life; Wind

Plants-Grade Level: PreK-1

7 subtopics with links to online games and/or activities: Flowers; How To Grow Plants; How Plants Grow; How Plants Grow II; Plant Life Cycles; Pollen; Trees & Photosynthesis

Plants-Grade Level: PreK-3

6 subtopics with links to online games and/or activities: How Plants Grow; How Plants Grow; How Plants Grow II, Plant Life Cycles; Seed Dispersal; Trees

Plants-Grade Level: K-3

3 subtopics with links to online games and/or activities: How Plants Grow: Animals And Plants; Seed Dispersal

### **Region VI Performance Assessments (8 videos, 1 playlist)**

Videos: Performance Base Assessment Overview Video; Are All Skills Covered In A Performance Based Assessment; What Are The Benefits Of Doing A Performance Based Assessment; When Should I Administer A Performance Base Assessment; Should Performance Assessments Be Done Alone Or In Groups; Should Students Be Given Support And Accommodations In Performance Based Assessment; What Are The Benefits Of An Effective Rubric In Performance Based Assessment

Playlist: Region VI Performance Assessments

### **Schoolhouse Rock! (6 videos)**

America; Earth; Grammar; Money; Multiplication; Science

### **Science Museum of Virginia (3 videos)**

Hurricane Preparedness, Climate Change, Urban Heat

### **Smart History (11 playlists)**

Introduction To Cultures & Religions For The Study Of AP Art History; Global Prehistory; Ancient Mediterranean; Early Europeans/Colonial Americas; Later Europe & Americans; Africa; West & Central Asia; South East & Southeastern Asia; The Pacific; Global Contemporary

### **Smart History (123 videos, 209 essays)**

About Chronological Periods In The Islamic World; Acropolis: Frieze; Acropolis: Helios, Horses, Dionysus, East Pediment; Acropolis: Nike Adjusting Her Sandal, Temple Of Athena Nike, Acropolis, Athens; Acropolis: Plaque Of The Ergastines; Acropolis: The Parthenon; Ai Weiwei, Kui Hua Zi (Sunflower Seeds); Akhenaton, Nefertiti, And Three Daughters; Albrecht Dürer, Adam And Eve; Alexander Mosaic From The House Of The Faun, Pompeii; Alfred Stieglitz, The Steerage; All-T'oqapu Tunic; Alhambra, The; Ambum Stone; Anavysos Kouros; Ancient Egypt, An Introduction; Ancient Egyptian Art; Andy Warhol, Marilyn Diptych; Angkor Wat; Anthropomorphic Stele; Apollo 11 Cave Stones; Apollonius, Boxer At Rest (Or The Seated Boxer); Architecture And Liturgy; Ardabil Carpet, The; Art Historical Analysis (Painting), A Basic Introduction Using Goya's Third Of May, 1808; Athenian Agora; Auguste Rodin, The Burghers Of Calais; Augustus Of Prima Porta by Julia Fischer; Augustus Of Prima Porta by Dr. Beth Harris and Dr. Steven Zucker; Aztec Feathered Headdress

Bahram Gur Fights The Karg (Horned Wolf), Ilkhanid Dynasty; Bamiyan Buddhas; Bandolier Bag; Basilica Of Santa Sabina, Rome by Dr. Allen Farber; Basilica Of Santa Sabina, Rome by Dr. Beth Harris and Dr. Steven Zucker; Battle Of The Romans And Barbarians (Ludovisi Battle Sarcophagus); Bayeux Tapestry, The; Beginner's Guide To Byzantine Art, A; Benin Plaque: Equestrian Oba And Attendants; Bible Moralisée (Moralized Bibles); Bichitr, Jahangir Preferring A Sufi Shaikh To Kings; Bill Viola, The Crossing; Borobudur; Bundu / Soweï Helmet Mask (Mende Peoples); Brief History Of Western Culture, A; Bushel With Ibex Motifs

Camelid Sacrum In The Shape Of A Canine; Capital Of A Column From The Audience Hall Of The Palace Of Darius I, Susa; Caravaggio, Calling Of St. Matthew; Catacomb Of Priscilla, Rome; Charles Barry And A.W.N. Pugin, Palace Of Westminster (Houses Of Parliament); Chartres Cathedral: Early History, Relic, Royal Portal And Jamb Figures; Chavín De Huántar; Christianity, An Introduction For The Study Of Art History; Christo And Jeanne-Claude, The Gates; Church And Reliquary Of Sainte-Foy, France; Cindy Sherman, Untitled #228; City Of Cusco; Claes Oldenburg, Lipstick (Ascending) On Caterpillar Tracks; Classical Orders, The; Colosseum (Flavian Amphitheater), Rome; Common Questions About Dates; Constantin Brancusi, The Kiss; Court Of Gayumars, The

David Vases, The; Deësis (Christ With The Virgin Mary And John The Baptist), Hagia Sophia, Istanbul; Diego Rivera, Dream Of A Sunday Afternoon In Alameda Central Park; Diego Velázquez, Las Meninas; Digging Through Time; Dome Of The Rock; Donatello, David (essay); Donatello, David (video); Doris Salcedo, Shibboleth

Early Photography: Niépce, Talbot And Muybridge; Early Photography: Niépce, Talbot And Muybridge (essay 1) by Dr. Rebecca Jeffrey Easby; Early Photography: Niépce, Talbot And Muybridge (essay 2) by Dr. Rebecca Jeffrey Easby; Eastern Shoshone: Hide Painting Of The Sun Dance, Attributed To Cotsiogo (Cadzi Cody); Édouard Manet, Olympia by Dr. Tom Folland; Édouard Manet, Olympia by Dr. Beth Harris and Dr. Steven Zucker; Edvard Munch, The Scream; El Anatsui, Old Man's Cloth; El Anatsui, Old Man's Cloth (A Similar Work); Elephant Mask (Bamileke Peoples); Élisabeth Louise Vigée Le Brun, Self-Portrait; Emily Kame Kngwarreye, Earth's Creation; Ernst Ludwig Kirchner, Self-Portrait As A Soldier; Etruscans, The: An Introduction; Eugène Delacroix, Liberty Leading The People by Dr. Bryan Zygmunt; Eugène Delacroix, Liberty Leading The People by Dr. Beth Harris and Dr. Steven Zucker

Female (Pwo) Mask; Female Reliquary Guardian Figure (Fang Peoples); Filippo Brunelleschi, Pazzi Chapel, Florence; Five Pillars Of Islam, The; Forbidden City, The; Folio From A Qur'an; Fort Ancient Culture: Great Serpent Mound; Forum Of Trajan, The; Forum Of Trajan: Column Of Trajan by Dr. Nancy Ross and Dr. Steven Zucker; Forum Of Trajan: Column Of Trajan by Dr. Ellen Hurst; Forum Of Trajan: Markets Of Trajan; Forum Of Trajan: The Forum And Markets Of Trajan; Fra Filippo Lippi, Madonna And Child With Two Angels; Francesco Borromini, San Carlo Alle Quattro Fontane, Rome; Francisco Goya, And There's Nothing To Be Done From The Disasters Of War; Frank Gehry, Guggenheim Bilbao; Frank Lloyd Wright, Fallingwater; Frida Kahlo, The Two Fridas (Las Dos Fridas); Frontispiece Of The Codex Mendoza; Funeral Banner Of Lady Dai (Xin Zhui)

Georges Braque, The Portugugese; Gian Lorenzo Bernini, Ecstasy Of Saint Teresa; Giotto, Arena (Scrovegni) Chapel; Giotto, Arena (Scrovegni) Chapel: Fresco Cycle; Giotto, Arena (Scrovegni) Chapel: Introduction; Giotto, Arena (Scrovegni) Chapel: Lamentation; Giotto, Arena (Scrovegni) Chapel: Last Judgment; Gold And Jade Crown, Silla Kingdom; Golden Haggadah, The; Golden Stool (Sika Dwa Kofi), Asante Peoples; Gottfried Lindauer, Tamati Waka Nene; Grave Stele Of Hegeso; Great Mosque Of Cordoba, The; Great Mosque Of Djenné (Djenné Peoples); Great Mosque, The (Or Masjid-E Jameh) Of Isfahan; Great Pyramids Of Giza; Great Zimbabwe; Grünewald, Isenheim Altarpiece; Gustav Klimt, The Kiss; Gustave Courbet, The Stonebreakers

Hagia Sophia As A Mosque; Hagia Sophia, Istanbul (essay); Hagia Sophia, Istanbul (video); Hall Of Bulls, Lascaux; Hammurabi: The King Who Made The Four Quarters Of The Earth Obedient (essay); Hammurabi: The King Who Made The Four Quarters Of The Earth Obedient (video); Head Of A Roman Patrician; Helen Frankenthaler, The Bay; Henri Matisse, Goldfish; Hiapo (Tapa); Historical Buddha, The; Hokusai, Under The Wave Off Kanagawa (The Great Wave); Hunefer's Judgement In The Presence Of Osiris

Ikenga (Igbo Peoples); Il Gesù, Rome; Imperial Fora, The; Introduction To Buddhism; Introduction To Islam; Introduction To The Ancient Near East; Introduction To The Middle Ages

J. M. W. Turner, Slave Ship; Jacob Lawrence, The Migration Series; Jacopo Pontormo, Entombment (Or Deposition From The Cross); Jacques-Louis David, Oath Of The Horatii by Dr. Beth Harris, Dr. Steven Zucker, and Frank Dabell; Jacques-Louis David, Oath Of The Horatii by Dr. David Boffa; Jade Cong; Jan Van Eyck, The Arnolfini Portrait; Jaune Quick-To-See Smith, Trade (Gifts For Trading Land With White People); Jean-Antoine Houdon, George Washington; Jean-Honoré Fragonard, The Swing; Jean-Michel Basquiat, Horn Players; Jeff Koons, Pink Panther; Johannes Vermeer, Woman Holding A Balance; José María Velasco, The Valley Of Mexico From The Santa Isabel Mountain Range by Abigail Lapin Dardashti; José María Velasco, The Valley Of Mexico From The Santa Isabel Mountain Range by Dr. Beth Harris and Dr. Steven Zucker; Joseph Wright Of Derby, A Philosopher Giving A Lecture At The Orrery; Jowo Rinpoche, Jokhang Temple, Tibet; Judaism, An Introduction; Julie Mehretu, Stadia II

Kaaba, The; Kara Walker, Darkytown Rebellion; Käthe Kollwitz, In Memoriam Karl Liebknecht; Kiki Smith, Lying With The Wolf; King Menkaure (Mycerinus) And Queen

Lamassu, Citadel Of Sargon II, Dur Sharrukin; Le Corbusier, Villa Savoye; Leon Battista Alberti, Palazzo Rucellai by Dr. Beth Harris and Dr. Steven Zucker; Leon Battista Alberti, Palazzo Rucellai by Dr. Bryan Zygmunt; Leonardo, Last Supper by Dr. Claire Black McCoy; Leonardo, Last Supper by Dr. Beth Harris and Dr. Steven Zucker; Lindisfarne Gospels, The; Liu Chunhua, Chairman Mao En Route To Anyuan; Longmen Caves, Luoyang; Louis Le Vau, André Le Nôtre, And Charles Le Brun, Château De Versailles; Louis Sullivan, Carson, Pirie, Scott Building; Lucas Cranach The Elder, Law And Gospel (Law And Grace); Ludwig Mies Van Der Rohe, Seagram Building, New York City; Lukasa (Memory Board) (Luba Peoples);

Machu Picchu; Magdalena Abakanowicz, Androgynous III; Maize Cobs; Marcel Duchamp, Fountain; Mariko Mori, Pure Land; Mary Cassatt, The Coiffure; Mask (Buk), Torres Strait, Mabuiag Island; Master Of Calamarca, Angel With Arquebus; Maya Lin, Vietnam Veterans Memorial; Meret Oppenheim, Object (Fur-Covered Cup, Saucer, And Spoon); Merovingian Looped Fibulae; Mesa Verde Cliff Dwellings; Michel Tuffery, Pisupo Lua Afe; Michelangelo, Last Judgment, Sistine Chapel by Dr. Lauren Kilroy-Ewbank and Dr. Steven Zucker; Michelangelo, Last Judgment, Sistine Chapel by Elisabeth Rowney; Miguel Cabrera, Portrait Of Sor Juana Inés De La Cruz; Mimar Sinan, Mosque Of Selim II, Edirne; Mohammed Ibn Al-Zain, Basin (Baptistère De Saint Louis); Mondrian, Composition With Red, Blue, And Yellow; Monet, The Gare Saint-Lazare by Dr. Margaret Herman; Monet, The Gare Saint-Lazare by Dr. Beth Harris and Dr. Steven Zucker; Mortuary Temple Of Hatshepsut

Nam June Paik, Electronic Superhighway: Continental U.S., Alaska, Hawaii; Ndop Portrait Of King Mishe Mishyaang Mambul (Kuba Peoples); Neolithic Revolution, The; New Pictorial Language, A: The Image In Early Medieval Art; Neo-Confucianism And Fan Kuan, Travelers By Streams And Mountains; Night Attack On by Josh R. Rose; The Sanjô Palace; Nike (Winged Victory) Of Samothrace; Niobid Krater

Ogata Kōrin, Red And White Plum Blossoms; Olowe Of Ise, Veranda Post (Yoruba Peoples) by Dr. Beth Harris and Dr. Steven Zucker; Olowe Of Ise, Veranda Post (Yoruba Peoples) by Shawn Roggenkamp; Owie Kimou, Portrait Mask (Mbilo) Of Moya Yanso (Baule Peoples)

Pablo Picasso, Les Demoiselles d'Avignon by Dr. Malka Simon; Pablo Picasso, Les Demoiselles d'Avignon by Dr. Stephanie Chadwick; Painting Colonial Culture: Ingres's La Grande Odalisque by Jessica Watson; Painting Colonial Culture: Ingres's La Grande Odalisque by Josh R. Rose; Paleolithic Art, An Introduction; Palette Of King Narmer; Pantheon, The; Pantheon (Rome), The; Paul Cézanne, Mont Sainte-Victoire by Dr. Beth Harris and Dr. Steven Zucker; Paul Cézanne, Mont Sainte-Victoire by Doris Maria-Reina Bravo; Paul Gauguin, Where Do We Come From? What Are We? Where Are We Going?; Peplos Kore; Pepón Osorio, En La Barberia No Se Lloro (No Crying Allowed In The Barbershop); Pergamon Altar, The; Persepolis: The Audience Hall Of Darius And Xerxes; Persian Art, An Introduction; Peter Paul Rubens, The Presentation Of The Portrait Of Marie De' Medici by Danielle Shang; Peter Paul Rubens, The Presentation Of The Portrait Of Marie De' Medici by Farisa Khalid; Petra: Rock-Cut Façades; Petra: The Rose Red City Of The Nabataeans; Petra: Urban Metropolis; Pieter Bruegel The Elder, Hunters In The Snow (Winter) by Dr. Matthew A. Postal; Pieter Bruegel The Elder, Hunters In The Snow (Winter) by Dr. Sarah Scher; Polykleitos, Doryphoros (Spear-Bearer) (essay 1); Polykleitos, Doryphoros (Spear-Bearer) (essay); Pompeii: House Of The Vettii; Portrait Of Sin Sukju; Power Figure (Nkisi Nkondi), Kongo Peoples; Presentation Of Fijian Mats And Tapa Cloths To Queen Elizabeth II; Puebloan: Maria Martinez, Black-On-Black Ceramic Vessel; Pyramid Of Khafre And The Great Sphinx ; Pyramid Of Khufu; Pyramid Of Menkaura; Pyxis Of Al-Mughira

Rachel Ruysch, Fruit And Insects; Raphael, School Of Athens; Rebecca And Eliezer At The Well, Vienna Genesis; Rembrandt, Self-Portrait With Saskia; Ringgold, Dancing At The Louvre; Robert Smithson, Spiral Jetty; Robert Smithson, Spiral Jetty; Robert Venturi, House In New Castle County, Delaware; Röttgen Pietà by Dr. Peri Klemm and Dr. Beth Harris; Röttgen Pietà by Roger D. Arnold; Running Horned Woman, Tassili n'Ajjer, Algeria; Ryōanji (Peaceful Dragon Temple) ; Ryōanji (Peaceful Dragon Temple)

Sacred Space And Symbolic Form At Lakshmana Temple, Khajuraho (India); Saint Louis Bible (Moralized Bible Or Bible Moralisée); San Vitale (Justinian And Theodora Panels) by Juliet Moss; San Vitale (Justinian And Theodora Panels) by Dr. Peri Klemm and Dr. Steven Zucker; Sandro Botticelli, The Birth Of Venus; Sarcophagus Of The Spouses (Rome) by Dr. Christa Clarke, Dr. Peri Klemm, and Dr. Steven

Zucker; Sarcophagus Of The Spouses (Rome) by Dr. Peri Klemm and Dr. Steven Zucker; Screen With The Siege Of Belgrade And Hunting Scene (Or Brooklyn Biombo); Seated Scribe; Shirin Neshat, Rebellious Silence, Women Of Allah Series; Shiva As Lord Of The Dance (Nataraja); Sistine Chapel: Ceiling Of The Sistine Chapel by Dr. Elizabeth Macaulay-Lewis; Sistine Chapel: Ceiling Of The Sistine Chapel by Dr. Melody Rod-Ari; Song Su-Nam, Summer Trees; Spaniard And Indian Produce A Mestizo, Attributed To Juan Rodriguez Juárez; Standard Of Ur; Standard Scenes From The Life Of Christ In Art; Standing Male Worshipper (Tell Asmar); Stonehenge; Story Of Jacob From The Vienna Genesis, The; Stupa At Sanchi, The

Taj Mahal, The; Temple Of Amun-Re And The Hypostyle Hall, Karnak; Temple Of Minerva And The Sculpture Of Apollo (Veii) by Dr. Karen Shelby; Temple Of Minerva And The Sculpture Of Apollo (Veii) by Dr. Jennifer N. McIntire; Templo Mayor At Tenochtitlan, The Coyolxauhqui Stone, And An Olmec Mask; Templo Mayor: Coyolxauhqui Monolith; Templo Mayor: Olmec Mask; Templo Mayor: The Sun Stone (Or The Calendar Stone) (Aztec); Terracotta Fragments, Lapita People; Theotokos Mosaic, Hagia Sophia, Istanbul; Thomas Cole, The Oxbow by Mary Beth Looney; Thomas Cole, The Oxbow by Dr. Virginia B. Spivey; Thomas Jefferson, Monticello; Titian, Venus Of Urbino; Tlatilco Figurines (essay); Tlatilco Figurines (video); Todai-Ji; Tomb Of The Triclinium; Transformation Masks; Tutankhamun's Tomb (Innermost Coffin And Death Mask)

Varvara Stepanova, The Results Of The First Five-Year Plan; Vasily Kandinsky, Improvisation 28 (Second Version); Veristic Male Portrait; Vincent Van Gogh, The Starry Night; Virgin (Theotokos) And Child Between Saints Theodore And George; Virgin Of Guadalupe by Allison Young; Virgin Of Guadalupe by Dr. Shawnya L. Harris; Visualizing Ancient Rome

Wangechi Mutu, Preying Mantra; What Maps Tell Us; White Temple And Ziggurat, Uruk; Why Look At Art?; Wilfredo Lam, The Jungle; Willem De Kooning, Woman, I; William Hogarth, Marriage A-La-Mode; Wooden Sculptures From Nukuoro; Workshop Of Robert Campin, Annunciation Triptych (Merode Altarpiece)

Xu Bing, Book From The Sky

Yaxchilán—Lintels 24 And 25 From Structure 23 And Structures 33 And 40; Yayoi Kusama, Narcissus Garden; Yinka Shonibare, The Swing (After Fragonard)

Zaha Hadid, MAXXI National Museum Of XXI Century Arts

### **Underwater Creature Features (7/7 minute segments)**

Each segment highlights life science concepts by introducing young children to habitats, body parts, migration, adaptation, ecosystems, and the life cycle.

### **VSTE (3 videos)**

Virginia Society for Technology in Education (VSTE) Conference; Virginia Society for Technology in Education (VSTE) Kim Wilkens Presentation; Virginia Society for Technology in Education (VSTE) Closing Day

### **WHRO Education Playlists (117 playlists)**

Case Of The Biological Biosphere 3-5; Case Of The Radical Ride 3-5; Computers 3-5; Engineer 3-5; Engineering K-2; English Dictionary K-2 (1); English Dictionary K-2 (2); English Grammar 3-5 (1); English Grammar 3-5 (2); English More Stories 3-5 (1); English More Stories 3-5 (2); English Reading Nonfiction K-2 (1); English Reading Nonfiction K-2 (2); English SOL 4.1 (1); English SOL 4.1 (2); English SOL 5.1 (1); English SOL 5.1 (2); English Stories 3-5 (1); English Stories 3-5 (2); English Stories K-2 (1); English Stories K-2 (2); English Vocabulary 3-5 (1); English Vocabulary 3-5 (2); English Vocabulary K-2 (1); English Vocabulary K-2 (2); Enrichment K-2 (1); Enrichment K-2 (2); Gravity 3-5; Habitat 3-5; Habitats K-2; Health - Allergies, Asthma, & Sleep 3-5; Health - Food 3-5; Health Environment & Health 3-5; Health K-2 (1); Health K-2 (2); History & Social Science Australia 3-5 (1); History & Social Science Australia 3-5 (2); History & Social Science Civil Rights 3-5 (1); History & Social Science Civil Rights 3-5 (2); History & Social Science Economics 3-5 (1); History & Social Science Economics 3-5 (2); History &

Social Science Economics K-2 (1); History & Social Science Economics K-2 (2); History & Social Science Holidays K-2 (1); History & Social Science Holidays K-2 (2); History & Social Science Inventors/Rivers, Roads, and Air 3-5 (1); History & Social Science Inventors/Rivers, Roads, and Air 3-5 (2); History & Social Science Inventors/USA K-2 (1); History & Social Science Inventors/USA K-2 (2); History & Social Science Mohawk Indian Dances K-2 (1); History & Social Science Mohawk Indian Dances K-2 (2); History & Social Science SOL VS.1 (1); History & Social Science SOL VS.1 (2); History & Social Science US1.1 (1); History & Social Science US1.1 (2); Math Counting by 10s K-2 (1); Math Counting by 10s K-2 (2); Math Angles 3-5 (1); Math Angles 3-5 (2); Math Counting K-2 (1); Math Counting K-2 (2); Math Decimals 3-5 (1); Math Decimals 3-5 (2); Math Digits 3-5 (1); Math Digits 3-5 (2); Math Geometry 3-5 (1); Math Geometry 3-5 (2); Math More Counting K-2 (1); Math More Counting K-2 (2); Math SOL 4.1 (1); Math SOL 4.1 (2); Math SOL 5.1 (1); Math SOL 5.1 (2); Math SOL 5.2 (1); Math SOL 5.2 (2); Math SOL 5.3 (1); Math SOL 5.3 (2); Math SOL 5.4 (1); Math SOL 5.4 (2); Math SOL 5.5 (1); Math SOL 5.5 (2); Math Sorting & Graphing K-2 (1); Math Sorting & Graphing K-2 (2); Nature 3-5; Nature K-2; Saving A Species 3-5; Saving Animals K-2; Science Kratts Creatures 3-5 (1); Science Kratts Creatures 3-5 (2); Science More Kratts Creatures Videos K-2; Science More Kratts Creatures Videos 3-5; Science More Sid the Science Kid K-2 (1); Science More Sid the Science Kid K-2 (2); Science Rain 3-5 (1); Science Rain 3-5 (2); Science Shadows K-2 (1); Science Shadows K-2 (2); Science Sid the Science Kid K-2 (1); Science Sid the Science Kid K-2 (2); Science Sid's Holiday Adventures K-2 (1); Science Sid's Holiday Adventures K-2 (2); Science SOL 4.1 (1); Science SOL 4.1 (2); Science SOL 5.1 (1); Science SOL 5.1 (2); Science Wildfires 3-5 (1); Science Wildfires 3-5 (2); Scratch Jr K-2 (1); Scratch Jr K-2 (2); Spanish 2 3-5; Spanish 3 3-5; Spanish 3-3-5; Spanish 4 3-5; Unusual Animals K-2; Weather 3-5; Weather K-2

## **Education Topics on Another View, Educationally Speaking, and HearSay in 2017-2018**

### **Another View**

William and Mary First Black Residential Students

July 31, 2017

When Lynn Briley, Janet Brown and Karen Ely moved into their dorm rooms at the College of William and Mary in 1967, they made history twice, becoming the first African American residential students and the first African American female undergraduates. That was 50 years ago. On the next Another View we'll talk about their experiences on campus and the continuing efforts of the College of William and Mary to acknowledge and repair relationships with the African American Community. Guests include Lynn Briley, Janet Brown, and Jacquelyn McLendon, Emerita Professor of English, and commemoration leader.

Meet Author Candy Hayes

October 20, 2017

How do you go on with life after the death of your infant son? Author Candy Hayes turned her sorrow to joy by creating Daniel's Blessings, a non-profit dedicated to ensuring the educational needs of children, particularly in Haiti! On the next Another View we'll talk with Candy about her work and hear inspiring stories of children she has helped succeed despite overwhelming obstacles. We'll also hear some of her poetry from her new book, "The Road in the River."

Turning Your Passion into a career

January 16, 2018

Are you like many young people today, trying to figure out what's the best career for you? Are you the parent of a college student who is looking for direction? Or are you an older adult, suddenly finding yourself having to "re-career" after a layoff? On the next Another View we talk with career coach Tamara S. Raymond, author of "Careering: The Pocket Guide to Exploring Your Future Career". Raymond says careering is a journey and she will share a roadmap to success.

Black History, American History

February 13, 2018

It was 56 years ago when fifteen Hampton Institute students were arrested for refusing to take seats in the segregated balcony at the Phoebus Lee Theater now known as the American Theater. Find out what drove their activism as we hear from two of the students, Lucy Thornton and Hulbert James, along with Linda Holmes, Oral Historian, Civil Rights Project, Hampton History Museum. Plus, we'll preview the upcoming PBS documentary, "Tell Them We Are Rising: The Story of Historically Black Colleges and Universities," and find out how Hampton University played a pivotal role in the production.

### **Educationally Speaking**

The Current State of Vocational Education in Today's Public Schools

June 4, 2018

Parents and students are looking closely at career paths and the cost of post high school education. The Virginia Beach City Public Schools Vocational Education Program has seen a dramatic increase in enrollment.

Aligning Needed Skills with Business and Industry Needs

June 5, 2017

How school Vocational Education is filling the needed gaps in the workforce.

Technology as the Driving Force in Creating Programs Aimed at Today's Job Market

June 6, 2017

Vocational Education Programs are being created to specifically address needs in the workforce and internships are increasingly being developed and serve as an entry into the job market.

### Certifications as the New Career Pathway and Entry into the Job Market

June 7, 2017

Vocational Education Programs often offer these certifications which are directly linked to the skills needed in many occupations.

### The Issue of Brain Drain

June 11, 2017

Former ODU president Jim Koch and ODU Economics Professor

Robert McNabb reflect on the exodus of college graduates from the region and what this means for the local economy.

### Specialization in Education

June 12, 2017

Businesses are telling educators that incoming workers lack many skills necessary for success in the workplace. Jim Koch and Robert McNabb continue the conversation about the local economy and how local school systems are adapting to meet workforce needs.

### The Changing Nature of High School Education

June 13, 2017

Jim Koch and Robert McNabb conclude their discussion by presenting the changing dynamics in public education. The “one size fits all” high school education is becoming obsolete. School divisions are creating Academies where students learn specific skill sets to meet the demands in the workplace.

### The Necessary Skills for the Workplace

June 14, 2017

Valerie Harriell, Vice- President of Human Resources of Volvo Penta of the Americas, discusses gaps in certain skills which prevents workers from getting jobs. The structural barriers to employment are discussed along with local programs that help get students on the right track to vocational employment.

### The Aptitude and Skills Needed for an Increasingly Technological Workplace

June 15, 2017

Ron Huibers, President and CEO of Volvo Penta of the Americas, talks about the convergence of the mechanical to the new computer-driven, electronic approach to manufacturing. Aptitude with electronics is critical as a needed skill for the workplace. Workplace training with local community colleges and vocational schools presents opportunities for workers to gain these skills.

### The Need for Skilled Workers and the Training Process

June 18, 2017

Susan Jacobs with Newport News Ship Building talks about the hiring process and the skills needed for this critical local industry.

### The Role of Community Colleges and High Schools in Providing Training for the Marine Science Industry

June 19, 2017

Directors at the Virginia Institute of Marine Science discuss how local community colleges and high schools can meet the increasing demand for workers within the aquaculture industry.

### The Defense Industry and the Need for Investment in Education

June 20, 2017

ODU Economics Professor Dr Robert McNabb and former ODU President James Koch discuss the need to diversify our local economy and make education spending a priority to prepare for possible future base closings.

### Hampton City Schools and the Academies of Hampton

June 21, 2017

Veronica Hurd presents the Academy Model the system is creating. The Academy Model prepares students for specific careers in different disciplines.



The Peninsula Council for Workforce Development and In-Demand Skilled Trades

June 22, 2017

Lisa Wornom Zahralddin details programs that offer training and the in demand jobs that employers are clamoring for. The Council for Workforce Development develops job training programs with local businesses and community colleges to help fill the gap for these jobs.

Stepping Stones in Health Care

June 25, 2017

Faye Gargiulo of Riverside Health System discusses how Certified Nursing Assistants and other introductory level nursing positions may lead to higher skilled positions like RN's and Nurse Practitioners.

The Need for Medical Specialists

June 26, 2017

Faye Gargiulo and Nancy Littlefield describe how community colleges and Riverside Health System partner to ensure that courses, certifications, and training programs are keeping up with the needs in an ever changing industry.

Introducing Students Early to the Possibilities in Health Care

June 27, 2017

What are the pathways to working in the health care field? Nancy Littlefield and Faye Gargiulo of Riverside Health System suggest introducing students as early as middle school to the possibilities of working in the health care industry, and emphasizing that the needed training can stretch from an introductory level course to a medical school degree.

Health Care as a Career Pathway

June 28, 2017

Nancy Littlefield of Riverside Health System discusses how the health care industry needs to reach out to ensure that underprivileged communities are aware of the possibilities for medical careers, including those that do not require four year degrees.

The Peninsula Council for Workforce Development and In-Demand Skilled Trades

June 29, 2017

Lisa Wornom Zahralddin details programs that offer training and the in demand jobs that employers are clamoring for. The Council for Workforce Development develops job training programs with local businesses and community colleges to help fill the gap for these jobs.

## **HearSay with Cathy Lewis**

Girls & STEM Education

February 06, 2018

STEM Education is a curriculum which educates students in four specific disciplines: science, technology, engineering and mathematics. In the United States, 10 of the 14 fastest-growing industries require STEM training. While the curriculum is beneficial for all students, efforts to expose young women to these fields have steadily increased. Today, we're talking to some of the leading women in STEM fields.

When Should School Start?

February 7, 2018

Are you a parent? If so, we'd love to hear from you today on the topic of whether school should start before Labor Day! In Virginia, the Kings Dominion Law prevents schools from opening before Labor Day without a waiver. However, recent votes in the House could change the rule.

Homeschooling

February 13, 2018

Do you homeschool your child? Today, we'll consider that style of schooling and how it shapes one's approach to higher education. Today's Guests: William Lee, a Hampton Roads parent whose children are homeschooled; and Catryna Jackson, Homeschool Academic Counselor with Williamsburg Classical Academy.

### College Affordability

March 1, 2018

The cost of college tuition is on the rise in Hampton Roads. However, college enrollment in the Commonwealth has increased each year since 1993. Today, we'll talk about Old Dominion University's efforts to make college more affordable and examine current legislation in the General Assembly aimed at combatting the issue.

### American Graduate 3: Denbigh Aviation Academy

March 28, 2018

WHRO Public Media is proud to be part of the Corporation for Public Broadcasting's American Graduate series. Today, we'll highlight the shortfalls in Virginia's job economy and explore how programs, like the Denbigh Aviation Academy in Newport News, can help strengthen the workforce.

### A Life on the Water

June 14, 2018

Have you ever thought about working in the maritime industry? We will talk about the different career paths people can take with Captain Ed Nanartowich, President of the Mid-Atlantic Maritime Academy in Norfolk and Ray Blanchet, Vice President of Operations. We'll also discuss the skills and life lessons you can pick up at the Tidewater Wooden Boat Workshop with Col. Tom Brandl, their Executive Director and boatbuilding instructor.

## Notes

### **Educational Advisory Committee (EAC)**

The Educational Advisory Committee (EAC) consists of a division selected School Board member or designee from each HRETA Member Division. The EAC receives reports, updates, and other information related to educational issues and priorities. The EAC meets four times each year at WHRO, generally in October, December, March, and May. The EAC is the decision-making body on matters related to the policy, planning, and operation of WHRO public education related activities.

### **Superintendents Advisory Council (SAC)**

The Superintendents Advisory Council (SAC) consists of HRETA member Superintendents. Because school divisions are the owners of WHRO, this group of superintendents serves as the body that makes final recommendations to the EAC regarding decisions related to the policy, planning, and operation of WHRO public education related activities. The SAC meets five times each year at WHRO, generally in October, December, January, March, and May. The SAC chair may schedule additional meetings as needed. The SAC will receive reports from WHRO on various issues pertaining to WHRO as well as summary reports regarding budgets, grants, instructional related services, and other business matters associated with educational initiatives supporting public schools.

### **Technology Advisory Committee (TAC)**

The Technology Advisory Committee (TAC) consists of HRETA member Chief Information Officer or other superintendent designee from each division. The TAC reviews all aspects of established educational activities (including budgets, grants, new initiatives, etc.) and provides comment on any related issues or concerns. Additionally, the TAC works with WHRO staff to recommend new regional technology based directions and initiatives and provides written reports to the SAC. The C.I.I. will serve as a resource to the TAC, providing detailed information on their area of responsibility and recommendations, if any, relative to their activities. The TAC meets five times a year at WHRO, generally in September, November, January, March, and May. Additional meetings may be scheduled as determined by the TAC Chair.

### **Consortium for Interactive Instruction (C.I.I.)**

The Consortium for Interactive Instruction (C.I.I.) consists of HRETA member representatives that are appointed by the division Superintendent. The C.I.I. serves as a subcommittee for the TAC to facilitate the communication, implementation, forums, and other activities essential to collaboration of instructional technologies in the HRETA region. C.I.I. business meetings are held three times a year, generally in September, January, and May, with additional special interest forums scheduled as needed throughout the year.

### **Desire2Learn System Administrators**

The Desire2Learn (D2L) System Administrator group is comprised of school division representatives and WHRO Education personnel. All of these individuals serve as learning management system administrators and meet together to support online and blended learning. D2L System Administrator meetings are held regularly throughout the year.

Front Cover Photos: Students from Carrollton Elementary School, Isle of Wight, competing at the Great Computer Challenge Jr. Division; WHRO's STEM Van at the Virginia Aquarium; PBS KIDS Writers Contest winners in the WHRO studio for the taping of the WHRO Young Storyteller Awards Show.