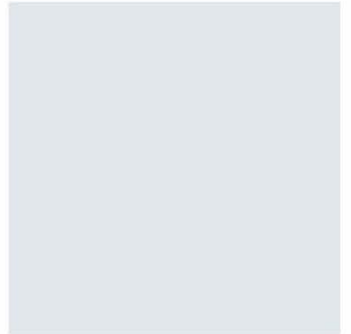
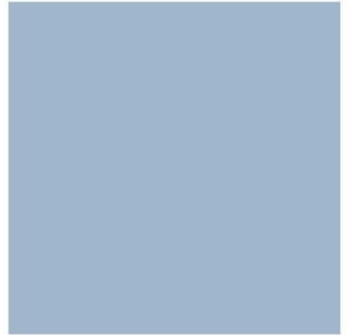
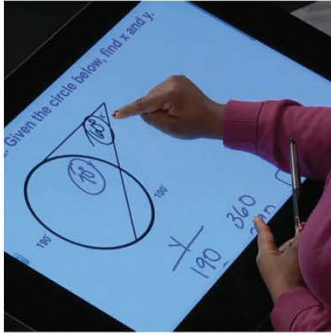


2016-2017 ANNUAL IMPACT STATEMENT



Middlesex County Public Schools



**WHRO Annual Impact Statement
2016-2017**

Middlesex County Public Schools

Regional Leadership

Group¹

Middlesex Representative

HRETA Educational Advisory Committee

**Garland Harrow
Dr. Richard Shores, *Alternate***

HRETA Superintendents Advisory Council

Dr. Peter Gretz

HRETA Technology Advisory Committee

Steve Dunkel

Consortium for Interactive Instruction

**Dr. Peter Gretz
Steven Dunkel**

D2L System Administrators

Vacant

¹ Please see the “Notes” section on page 24 for complete descriptions of each of these groups.

Educator Resources and Training

1. eMediaVAsm (www.emediava.org), a service of WHRO and supported by the Virginia Department of Education 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 140,000 learning objects² (up from 125,000 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 170,000 educators currently have registered accounts (up from just over 160,000 the previous year).

Regional Savings/Value: \$422,835.00

Middlesex Savings/Value^A: \$2,840.00

eMediaVA Trainings were conducted 14 times across the Commonwealth last year. Over 270 Virginia educators participated in one of these trainings, including more than 160 from HRETA owner schools.

Regional Savings/Value: \$16,500.00

Middlesex Savings/Value^B: \$0.00

eMediaVA also offers a number of division-wide connections designed to streamline access and account maintenance including Clever (www.clever.com) and Single Sign-On (SSO) options, as well as Learning Tools Interoperability (LTI) integrations. This year, eMediaVA implemented two LTI integrations, one with Schoology for Virginia Beach and another one with Desire2Learn for Virtual Virginia. In total, 28 school divisions statewide, including 11 of the 19 HRETA divisions (Chesapeake, Franklin City, Hampton, Middlesex, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg-James City County) have integrated with eMediaVA.

2. Special Topic Forums are held throughout the year to address timely educational technology topics. In 2016-2017, we conducted or hosted 7 Forums: Promethean Activpanel Demonstration; Virginia Kindergarten Readiness Assessment (VKRP); Apple Tech Update for Education (2); Everyone Can Code; Legislative Update; and a 3-day Microcontroller/Programming Course. **Two Middlesex** educators participated in one or more of these Forums.

Regional Savings/Value: \$32,400.00

Middlesex Savings/Value^C: \$450.00

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 2016-2017, more than 300 teachers across the Commonwealth registered for a course, including 82 teachers from HRETA owner schools and **1 Middlesex** teacher. 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.

² Please see the "eMediaVA Learning Objects Produced or Acquired by WHRO in 2016-2017" section starting on page 13 for a list of the content acquired.

4. Other WHRO Education Professional Development offered in 2016-2017 included 8 PBS KIDS ScratchJr Code-to-Learn sessions, a Digital Citizen Module session, and 2 PD in your PJs webinars. More than 200 educators from across the Commonwealth participated in one of these events, including 175 teachers from HRETA owner schools.

Regional Savings/Value: \$27,000.00

Middlesex Savings/Value^D: \$0.00

5. Workforce Development includes **SkillsOnline™** (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 brand new 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. The **WHRO Education Online Courses** service was launched in 2007. All of the 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 U.S. History; VA and U.S. Government; World Geography; and World History I and II. In addition, a seven-week Online Teaching Methodology (OTM) course that teaches teachers how to be successful in a K-12 online teaching environment has also been created. James Madison University offers 3 graduate credits for the OTM course. WHRO staff also developed a Digital Citizenship Module for students in grades 8-12 that examines online security and risks and explores digital communications and social media. The Virginia Department of Education 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.

WHRO staff also coordinated 4 regional Learning Management System (LMS) Administrator meetings; conducted 10 trainings; and met with individual divisions 13 times regarding LMS support. Finally, in 2016-2017, WHRO staff completed 4 significantly revised courses – Biology, English 12, Health and PE 9, and Health and PE 10.

Regional Savings/Value: \$10,474,620.00

Middlesex Savings/Value^E: \$550,000.00

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: \$729,595.00

Middlesex Savings/Value^F: \$0.00

2. At the request of the Virginia Department of Education 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. Two years ago we produced **Algebra I** and last year we produced **Geometry**. This year we are producing **Earth Science**. 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.

Regional Savings/Value: \$1,710,000.00

Middlesex Savings/Value^G: \$90,000.00

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 13,000 courses³ this past year. Regionally, there were nearly 2,800 course registrations, including **78 Middlesex** registrations from **Middlesex High School**.

For the second year, students from across the state had the opportunity to participate in a full-time online high school program pilot through Virtual Virginia that featured 13 WHRO-produced courses. Statewide, there were 82 registrations, including 39 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.

³ 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^H: \$1,165.00

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. 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 400 entries were received this year. It is difficult to determine the value/savings this activity represents, but participation in certain divisions implies its worth.

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 74 area schools as local Spelling Bee Champions competed. Once again, it is difficult to determine the real value/savings this activity represents, but participation in certain divisions and program viewership implies its worth.

Regional Savings/Value: \$32,075.00

Middlesex Savings/Value^I: \$0.00

4. Great Computer Challenges – Junior & 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. More than 160 teams participated in the Challenges this year, including **3 Middlesex** teams.

Regional Savings/Value: \$5,880.00

Middlesex Savings/Value^J: \$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	Honorable Mention
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	3rd Place

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: \$204,880.00

Middlesex Savings/Value^K: \$935.00

6. Local Educational Video Productions included **Excellence in Technology Conference** promo and session segments; **Super WHY! Reading Camp**, **Odd Squad "Be The Agent" Camps** and **PBS KIDS ScratchJr Coding Camp** that were taped and the footage given to the Corporation for Public Broadcasting for national use; **Virginia Society of Technology Educators (VSTE) Conference** live streaming of three keynote sessions and taping of 12 **Kid Talks** segments featuring local students demonstrating innovative uses of technology in the classroom; the **WHRO Young Storytellers Awards Show** and **Reception** that recognizes and features the winners of the PBS KIDS Writers Contest; and 47 video segments featuring historical aspects of **Bruton Parish Church** that will be distributed via eMediaVA. Throughout the year, we also aired **Education Now** segments featuring successful school practices in Chesapeake, Gloucester, Isle of Wight, Mathews, Newport News, Norfolk, Poquoson, Suffolk, Virginia Beach, and York on WHRO TV15, WHRO WORLD and WHRO CREATE.

Regional Savings/Value: \$124,535.00

Middlesex Savings/Value^L: \$570.00

7. Local WHRV Radio productions **Another View** and **HearSay with Cathy Lewis**⁴ featured 22 programs on topics of interest to educators in 2016-2017, and **Educationally Speaking**, a 5-week documentary series consisting of 20 podcasts, examined the current state of education and featured local interviews about a different topic each week.

Regional Savings/Value: \$84,550.00

Middlesex Savings/Value^M: \$385.00

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 2016-2017, more than 300 stories touched on education topics, representing approximately 1.5% of the total number of stories covered.

Regional Savings/Value: \$6,715.00

Middlesex Savings/Value^N: \$30.00

9. WHRO Education Staff presented at the following **Local, Regional, State, or National Events**: Virginia Society for Technology in Education's Annual Conference, Superhero Summit and Leading Ed2 Summit; Virginia Association for Secondary School Principals Annual Conference; Virginia Association for School Superintendents Annual Conference; Virginia Association for Early Childhood Education Annual Conference; Virginia Department of Education Open Educational Resources Teacher Training; Virginia Association for Curriculum Development's Annual Conference and Southwest Virginia Regional Conference; EdCampHRVA, Region 2; Southeastern Association for the Education of Young Children's Conference; Norfolk Public School Library Media Specialist Professional Learning Day; York County School Division Professional Learning Conference; and Suffolk Excellence in Education Conference.

In addition, WHRO Education Staff conducted training for the following non-HRETA school divisions: Amelia County, Colonial Beach, Henry County, Manassas, Rappahannock County, and Staunton.

⁴ Please see the "Education Topics on Another View, Educationally Speaking, and HearSay in 2016-2017" section starting on page 18 for complete descriptions of each of the programs.

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 entered into a trade agreement with the Virginia School Board Association (VSBA) to tape their regional Hot Topic forums 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 WHRO was awarded contracts by the Williamsburg Health Foundation and the 2019 Commemoration to produce educational content. **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; and **Guardians of Jamestown 1619**, a time-traveling video adventure series where the main character, an elementary school student, must locate and save artifacts from 1619 to ensure that they are found by archaeologists in the present.

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.

New initiatives this year focused on Science Technology Engineering and Mathematics (STEM) and included the **WHRO STEM Van**, **Odd Squad “Be the Agent” Camps**, **PBS KIDS ScratchJr Learn to Code Camps**, and **PBS KIDS ScratchJr Professional Development** for teachers. A brand new addition to our Early Learning service portfolio, the STEM Van was funded through a local foundation and a corporate underwriter; the initial Odd Squad coding camp and teacher professional development were made possible by grants from PBS; and additional Odd Squad and coding camps were funded by local foundations. As just one example of the impact these new services are already having, more than 130 Pre-K through second grade teachers attend the PBS KIDS ScratchJr Professional Development workshops in July 2016.

The **WHRO STEM Van** hit the road in August of 2016. It 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 80 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.

WHRO has had a **24/7 KIDS Channel** for 15 years. When the new PBS KIDS 24/7 channel launched in January 2017, WHRO immediately transitioned to the new service that also provides a 24/7 streaming service that can be used on any mobile device. In November 2016 we also launched a new **WHRO KIDS e-newsletter** and in June 2017 we launched **www.whrokids.org**, a new website featuring 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.

Continuing services include:

Early Childhood Television Programs – Combined, WHRO delivered over 12,000 hours of the best high-quality educational early childhood television programming last year on WHRO KIDS 15.3 and on WHRO 15.1, free-of-charge to every household in greater Hampton Roads.

Super WHY! Reading Camps are 5-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 camps reaching more than 425 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, a Super WHY! Reading Camp for rising kindergartners was held at Children’s Harbor in Chesapeake for 20 students.

Odd Squad “Be The Agent” Camps are multi-day programs where campers ages 6-8 watch episodes from the series, solve cases using math, create gadgets, and participate in digital experiences each day. This year, 12 children participated in a week-long camp held at the Portsmouth Neighborhood Facilities Center and another 17 children participated in a week-long camp held at Bayview Community Center in Norfolk. A special Odd Squad “Be The Agent” Day was developed this year reaching 463 children in the following locations: Carrollton and Hardy Elementary Schools, Isle of Wight; Lee-Jackson Elementary School, Mathews; Bayview Community Center, Norfolk; Booker T. Washington Elementary School, Suffolk; and D. J. Montague Elementary School, Williamsburg-James City County.

PBS KIDS ScratchJr Coding Camps are 5-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. Five different camps reaching more than 120 students were held this year at: Elephant’s Fork Elementary School, Suffolk; Sussex Central Elementary School, Sussex; and Bayview (2 camps) and Crossroads Community Centers, Norfolk.

Martha Speaks Reading Buddies, now in its eighth 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 2016-2017, 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 10 local libraries including Hampton Main Library, Hampton; Little Creek Joint Forces Library, Norfolk; Park Place Library, Norfolk; P. B. Young Elementary School Library, Norfolk; Cradock Library, Portsmouth; Portsmouth Main Library, Portsmouth; Bayside Public Library, Virginia Beach; Fort Story Army Base 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 Carver Elementary School, Newport News; James Monroe, P.B. Young, Richard Bowling, and Sewells Point 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) 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) and **PBS LAB** (www.pbskids.org/lab) **Websites** are engaging multimedia destinations specifically created for kids ages 2-8. With fun, quirky settings full of surprises, these sites empower kids to discover themselves, define the diverse world around them, explore new relationships, and embrace a love of learning. The sites feature 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. PBS KIDS features video clips, games, activities, and resources for the series and the LAB includes new apps focused on math, augmented reality games, using camera phones, and behind-the-scenes features.

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.

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 2016-2017, nearly 20,000 families, 1,100 caregivers/teachers, and 20,000 children participated in one or more of these activities. In addition, we distributed more than 4,200 First Books and 11,000 activity booklets to children most at need.

*Total Regional Savings/Value: \$239,680.00
(For all items above)*

*Total Middlesex Savings/Value⁰: \$0.00
(For all items above)*

Middlesex County Public Schools Return on WHRO Investment 2016-2017
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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 programming 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	\$2,386.00
C.I.I. Annual Dues	\$1,500.00

Total Annual Investment*	\$3,886.00
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**Additional product/service specific revenue (i.e., LMS group purchases, etc.) is included in the saving/value calculations below.*

Direct Value/Savings:

eMediaVA sm Operation and Content Acquisition	\$2,840.00
eMediaVA sm Trainings	\$0.00
Special Topic Forums	\$450.00
Other WHRO Education Professional Development	\$0.00
WHRO Education Online Course Development	\$550,000.00
LMS Group Purchase	\$0.00
WHRO Education Video Course Development	\$90,000.00

Total Direct Annual Value/Savings	\$643,290.00
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Middlesex Direct Return on Investment	\$165.55 to \$1.00
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Additional Value/Savings:

WHRO Kids	\$1,165.00
The Virginian-Pilot Spelling Bee	\$0.00
Great Computer Challenges (Junior & Senior Divisions)	\$120.00
General PBS Programming	\$935.00
Local Educational Video Productions	\$570.00
Local Educational Radio Productions	\$385.00
General NPR Programming	\$30.00
Families/Early Learners	\$0.00

Total Additional Annual Value/Savings	\$3,205.00
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Total Direct and Additional Annual Value/Savings	\$646,495.00
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Total Middlesex Return on Investment	\$166.35 to \$1.00
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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 (\$129,585.00) 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 2016-2017 WHRO online course development costs to refresh courses that each division would have had to pay on its own (\$550,000.00) multiplied by the number of WHRO owner school divisions (19) to yield the true regional savings (\$10,450,000.00). 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 (\$10,093.74), technical support, if applicable (\$1,593.74), and fully online licenses (\$14.87 each) if applicable, minus cash paid by the individual HRETA owner division.
- G 2016-2017 WHRO video course production costs that each division would have had to pay on its own (\$90,000.00) multiplied by the number of WHRO owner school divisions (19) to yield the true regional savings (\$1,710,000.00).
- H Total annual operational cost (\$255,000.00) of WHRO Kids allocated across HRETA owners according to relative size.
- I The Virginian-Pilot Spelling Bee production costs (\$32,075.00) allocated across HRETA owners according to relative size, if participating.
- J Number of division teams multiplied by HRETA member entry fee discount.
- K Annual WHRO PBS dues (\$1,024,413.00) multiplied by 20% (conservative estimated educational percentage of program usage) allocated across HRETA owners according to relative size.
- L WHRO Young Storytellers production costs (\$11,400.00) plus Excellence in Technology Conference video production costs (\$4,000.00) plus Bruton Parish Church video production costs (\$78,000.00) plus Education Now broadcast costs (\$31,135.00) all allocated across HRETA owners according to relative size.
- M Average Another View and HearSay with Cathy Lewis episode production cost (\$4,150.00), feature story production costs (\$1,000.00), and Educationally Speaking podcast production cost (\$450.00) multiplied by the number of episodes, featured stories, or podcasts of interest to educators allocated across HRETA owners according to relative size.
- N Annual WHRO NPR dues (\$447,677.00) multiplied by 1.5% (based on NPR statistics regarding the number of programs directly related to Education) allocated across HRETA owners according to relative size.
- O Number of training sessions conducted multiplied by the average cost per session (\$750.00/day) plus the cost of materials distributed at sessions plus number of new Raising Reader Libraries multiplied by cost to equip them (\$2,800.00) plus number of Super WHY! Camps conducted multiplied by cost to conduct them (\$5,000.00) plus number of ScratchJr Camps conducted multiplied by cost to conduct them (\$5,000.00) plus number of Odd Squad Camps conducted multiplied by cost to conduct them (\$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/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 2016-2017

BARRIER ISLAND CENTER (3/30:00 Videos)

Our Island Home - Original documentary film, plus all new bonus footage from director James Spione about the history and ecology of Hog Island, one of Virginia's extraordinary Barrier Islands.

Spirit of the Bird - Original film about the heritage of waterfowl hunting and decoy carving on the Eastern Shore of Virginia.

Watermen - Documentary explores the lives of the last independent fishermen to work the waters of the Atlantic and Chesapeake Bay.

ECHOS & REFLECTIONS (1 lesson plan)

Echos & Reflections, Teacher and Resource Guide, Lesson 1 - Studying the Holocaust. The teacher and resource guide for studying human catastrophe and the Holocaust, in particular.

GEOMETRY (14 Modules/80 Topics)

Module 1: Logic and Reasoning (G.1 a, b, c) - Topics: Conditional and Bi-conditional Statements; Translating Verbal Arguments into Symbolic Form; Law of Detachment; Law of Contrapositive; Law of Syllogism.

Module 2: Angles Formed by a Transversal Intersecting Parallel Lines (G.2 a, b) - Topics: Angles Formed by a Transversal Intersecting Parallel Lines; Practical Problems Involving Angles Formed by a Transversal Intersecting Parallel Lines; Using Angle Relationships to Prove Lines are Parallel.

Module 3: Coordinate Methods (G.3 a, b, c, d) - Topics: Using the Distance Formula; Using the Midpoint Formula; Slopes of Parallel and Perpendicular Lines; Translations; Reflections; Rotations; Symmetry; Dilations.

Module 4: Triangle Relationships (G.5 a, b, c, d) - Topics: Ordering the Sides and Angles of a Triangle; Triangle Existence; The Range of the Length of the Third Side of a Triangle.

Module 5: Congruent Triangles (G.6) - Topics: Proving Triangles Congruent by Side-Side-Side; Proving Triangles Congruent by Side-Angle-Side; Proving Triangles Congruent by Angle-Side-Angle; Proving Triangles Congruent by Angle-Angle-Side; Proving Triangles Congruent by Hypotenuse-Leg; Using Direct Proofs to Prove Triangles Congruent.

Module 6: Similar Triangles (G.7) - Topics: Proving Triangles Similar by Side-Side-Side Similarity; Proving Triangles Similar by Side-Angle-Side Similarity; Proving Triangles Similar by Angle-Angle Similarity; Using Direct Proofs to Prove Triangles Similar.

Module 7: Right Triangles (G.8 a, b, c) - Topics: The Pythagorean Theorem; Converse of the Pythagorean Theorem; $45^\circ - 45^\circ - 90^\circ$ Special Right Triangle; $30^\circ - 60^\circ - 90^\circ$ Special Right Triangle; Right Triangle Trigonometry; Inverse Trigonometry; Practical Problems Involving Trigonometry.

Module 8: Quadrilaterals (G.9) - Topics: Applying Properties of a Parallelogram; Applying Properties of a Rectangle; Applying Properties of a Rhombus; Applying Properties of a Square; Applying Properties of Trapezoids and Isosceles Trapezoids; Proving Properties of Quadrilaterals.

Module 9: Polygons (G.10 a, b, c) - Topics: Interior Angles of a Polygon; Exterior Angles of a Polygon; Determining the Number of Sides of a Regular Polygon; Tessellations.

Module 10: Properties of a Circle (G.11 a, b, c, d) - Topics: Angles Formed by Intersections in the Interior of a Circle; Angles Formed by Intersections in the Exterior of a Circle; Central and Inscribed Angles; Finding the Lengths of Intersecting Chords; Finding the Lengths of Intersecting Secants; Finding the Lengths of Intersecting Tangents; Finding the Lengths of Intersecting Tangents; Calculating the Length of an Arc; Calculating the Area of a Sector; Verifying the Properties of a Circle.

Module 11: The Standard Equation of a Circle (G.12) - Topics: The Standard Equation of a Circle; Determining the Equation of a Circle Given the Coordinates of the Center and a Point on the Circle; Determining the Equation of a Circle Given the Coordinates of the Endpoints of a Diameter; Identifying Points that Lie on a Circle.

Module 12: Constructions (G.4 a, b, c, d, e, f, g, h) - Topics: Introduction to Constructions; Constructing a Line Segment Congruent to a Given Line Segment; Constructing a Perpendicular Bisector of a Line Segment; Constructing a Perpendicular to a Given Line from a Point Not on the Line; Constructing a Perpendicular to a Given Line from a Point on the Line; Constructing an Angle Bisector; Constructing an Angle Congruent to a Given Angle; Constructing a Line Parallel to a Given Line through a Point Not on the Line; Constructing an Equilateral Triangle Inscribed in a Circle; Constructing a Square Inscribed in a Circle; Constructing a Regular Hexagon Inscribed in a Circle.

Module 13: Area and Volume (G.13) - Topics: Calculating the Surface Area and Volume of a Cylinder; Calculating the Surface Area and Volume of a Prism; Calculating the Surface Area and Volume of a Pyramid; Calculating the Surface Area and Volume of a Cone; Calculating the Surface Area and Volume of Spheres and Hemispheres; Solving Problems Involving Composite Solids.

Module 14: Similarity in Two- and Three-Dimensional Figures (G.14 a, b, c, d) - Topics: Comparing Ratios of Measures of Similar Figures; Practical Problems Involving Similar Two- and Three-Dimensional Figures; Determining How Changes in One Dimension Affect Perimeter, Area, and Volume and Vice-Versa.

GEOMETRY PLAYLISTS

A playlist was created for each module of the Geometry video series. Titles are: Geometry - Module 1: Logic and Reasoning; Geometry - Module 2: Angles Formed by a Transversal Intersecting Parallel Lines; Geometry - Module 3: Coordinate Methods; Geometry - Module 4: Triangle Relationships; Geometry - Module 5: Congruent Triangles; Geometry - Module 6: Similar Triangles; Geometry - Module 7: Right Triangles; Geometry - Module 8: Quadrilaterals; Geometry - Module 9: Polygons; Geometry - Module 10: Properties of a Circle; Geometry - Module 11: The Standard Equation of a Circle; Geometry - Module 12: Constructions; Geometry - Module 13: Area and Volume; Geometry - Module 14: Similarity in Two-and Three-Dimensional Figures.

HAMPTON ROADS NAVAL MUSEUM – SHAPING POLICY (16 lesson plans, 2 PowerPoints, 20 images, 10 documents)

Female Aviator Firsts: Conatser, Preflight Check; All Hands, 1973: Recruitment Of Diverse Sailors; Be Something Special: Recruitment, Female Officers; Chart Your Future: Recruitment Pamphlet, 1960s Captain Joan C. Bynum: Promotion Potential; You Can Be Black, And Navy Too: Recruitment Poster, 1972; Mines Sisters: Expanding Educational Opportunities; Joellen Drag Oslund: Female Pilots; USS Kitty Hawk: Racial Unrest In The Navy; Navy Nurse: USS *Repose* (AH-6) Nurse; Admiral Elmo R. Zumwalt: Chief Of Naval Operations (CNO) Zumwalt; Flight Deck Crew: USS Constellation (CVA-64) Race Riots, USS Kitty Hawk: The Black Panther; Human Relations Council, Japan: Zumwalt Works For Equality; Make History: Recruitment Poster, Make History; Safe Conduct Pass: Front And Back Of Vietnam Safe-Conduct Pass; Women Colorguard: Uniform Policies; Yona Owens: Justice Through The Judicial System; Women's Officer Cover: Mary Mosier's Cover; Women's Uniform: Mary Mosier's Uniform.

MATH OUTREACH PROFESSIONAL DEVELOPMENT (22 Modules)

Algebra I - 10 Modules: Numbers and Properties; Solving Equations and Inequalities; Graphing Linear Equations; Writing Equations; Systems of Equations; Exponent Rules; Polynomials; Factoring; Simplifying Radicals-Cube Roots; Quadratic Functions.

Geometry - 12 Modules: Basics; Logic and Proofs; Parallel Lines; Triangles; Special Segments; Similarity; Right Triangles; Quadrilaterals; Polygons; Circles; 3D Figures; Constructions.

RICHMOND'S JOURNEY (21 lesson plans)

Teacher Education Guide for Richmond's Journey, From the End of Slavery and the Civil War to Today. Introduction, Historical Background.; Primary Source Analysis Tools, Analysis worksheets.; Mayor Mayo Letter, Letter from Mayor Joseph Mayo, Mayor of the City of Richmond during the Civil War.; President Lincoln Riding Through Richmond, Lincoln's Ride Through Richmond.; The Fall of Richmond, The burning of Richmond.; The Petersburg Platform, Sketch of the Petersburg Platform.; WPA Account, George Lewis' Interview, An interview with a boy about being in Richmond when it fell to Union troops.; Ballot Box, Guaranteeing that African Americans would have the right to vote.; Broadside, from the Committee, 2 April 1866, Former slaves seek to make meaning of their emancipation.; Broadside, August 5, 1865, About the Freedmans Bureau.; 1861-1865 Broadside, The Valentine, Broadside were displayed in Richmond with announcements regarding the war.; Chimborazo School Register, All about the Chimborazo School.; Diary of Frances Caldern de la Barca Hunt, Frances Caldern de la Barca Hunt's journal.; Petit Jury, What is a petit jury?; Emma Mordecai Letter, The Emma Mordecai Letter.; F. McCarthy Letter, May 1, 1865, Letter from Pastor McCarthy to his sister about situation in Richmond.; Freedman's Bureau Contract, The Freedman contracts allowed slaves to work.; Newspaper, Harpers Weekly, An article in Harper's Weekly about the Freedman's education in Richmond.; Images of Burning Richmond, Three images and historical perspective on the fall of Richmond.

VIRGINIA BEACH SPCA (1 lesson plan, 1 document)

Ancient Egypt and the Domestication of Cats. Lesson plan and worksheet. The Ancient Egyptians are credited with being some of the first people to tame and live with cats as pets.

WHRO EDUCATION LESSON PLANS (33 Lesson Plans)

Adaptations Elementary; Adaptations High School; Animal Needs (In Museum); *Animal Sense (In Museum)*; Chemical Conundrum; Civil War Battles; Civil War - Why They Fought, The; Colonial Frontier, The; Columbian Exchange Program; Early American Experience; Empire Of Mali Program; Famous Faces; Food Chains (In Museum); Forms Of Matter; Life Cycles Of Plants And Animals; Life Of An Historic Farmer; Marvelous Maps; Migration To The American Colonies; Let's Get Moving; National Museum of the Civil War Soldier; Natural Resources; Our "Sense"-Sational World; Physical Education; Plantation Life; Plants And Animals; Pushes And Pulls; Reconstruction; Science Toys; Settling Simple Machines; Soldier's Life, A; Storm Makers; Strange Attraction: Magnets And Their Uses; Water, Water, Everywhere; Water, Water, Everywhere; Watershed Experience; What's In The Bag?; Who Am I? Where Do I Live?

WHRO EDUCATION PLAYLISTS (260 Playlists)

4th of July; Adjectives; Adverbs; Albert Einstein; Anne Frank's Birthday; Arts in Our Schools, The; Asian-Pacific American Heritage Month; Authors 3-5; Authors II 3-5; Authors II K-2; Authors K-2; Bees 3-5; Bees II 3-5; Bees II K-2; Bees K-2; Black History Month; Building a Bridge; Butterflies 3-5; Butterflies II 3-5; Butterflies II K-2; Butterflies K-2; Celebrate Earth Day; Cities 3-5; Cities K-2; Clouds; Counting in Spanish; Days of the Week in Spanish; December Holidays; Distance; Division; Drinking Water; Emancipation Proclamation; Engineering Jobs; Estimation 3-5; Estimation II 3-5; Estimation II K-2; Estimation K-2; Even Numbers; Exercise; Explorers; Famous Americans 3-5; Famous Americans II 3-5; Famous Americans II K-2; Famous Americans K-2; Father's Day; Flag Day; Flowers/Plants II K-2; Flowers/Plants K-2; Force and Motion; Fractions 3-5; Fractions II 3-5; Fractions II K-2; Fractions K-2; Good Food to Eat; Graphs & Charts; Gravity; Healthy Teeth; Inventors; Jamestown 3-5; Jamestown II 3-5; Lewis and Clark 3-5; Lewis and Clark II 3-5; March on Washington, The; Martin Luther King Day; Math Education Month; Math Facts; May Holidays II K-2; May Holidays K-2; Measurement 3-5; Measurement II 3-5; Measurement II K-2; Measurement K-2; Memorial Day; Mexico; More Spanish Words; Mother's Day; Mountains; Multiplication; National Aviation Day; National Bird Day; National Honey Month; Nelson Mandela; Nouns; Number Line; Oceans; Odd Numbers; Pearl Harbor Day; Plants 3-5; Plants II 3-5; Poetry 3-5; Poetry II 3-5; Pollution; Presidents; Presidents Day and 60-Second Presidents; Problem Solving 3-5; Problem Solving II 3-5; Problem Solving II K-2; Problem Solving K-2; Recycling; Remembering the Holocaust; Rhyming II K-2; Rhyming K-2; Rosa Parks Day; Spanish Words; Splash and Bubbles; Stories II K-2; Stories K-2; Story Reading 3-5; Story Reading K-2; Summer; United States II K-2; United States K-2; Verbs K-2; Verbs 3-5; Verbs II 3-5; Virginia; Virginia 3-5; Virginia II 3-5; Vocabulary; Vocabulary 3-5; Vocabulary II 3-5; Vocabulary II K-2; Vocabulary K-2; Washing Hands & Cleanliness; Watersheds; Women's Equality Day; Women's History Month; Worms 3-5; Worms II 3-5; Worms II K-2; Worms K-2; Writing.

English - K.1 (3 Playlists); K.1 (1) (2 Playlists); K.2 (2 Playlists); K.2 (1) (2 Playlists); K.2 (2) (2 Playlists); K.2 (3) (2 Playlists); K.2 (4) (2 Playlists); K.2 (5) (2 Playlists); K.12 (3 Playlists); K.12 (2 Playlists); K.12 (1) (2 Playlists); 1.1 (3 Playlists); 2.1 (3 Playlists); 3.1 (3 Playlists); 3.1 (1) (2 Playlists); 11.4; 12.4.
History and Social Science - K.1 (3 Playlists); K.1 (1) (2 Playlists); K.1 (2) (2 Playlists); 1.1; 2.1 (3 Playlists); 3.1 (3 Playlists); VUS 10c – The Great Depression.
Math - K.1 (3 Playlists); K.4 (3 Playlists); K.4 (1) (2 Playlists); K.4 (2) (2 Playlists); Math K.4 (3) (2 Playlists); K.4 (4) (2 Playlists); K.4 (5) (2 Playlists); K.4 (6) (2 Playlists); K.4 (7) (2 Playlists); K.4 (8) (2 Playlists); 1.1 (3 Playlists); 2.1 (3 Playlists); 3.1 (3 Playlists).
Phonics - (1) (2 Playlists); (2) (2 Playlists); (3) (2 Playlists); (4) (2 Playlists); (5) (2 Playlists); (6) (2 Playlists).
Science - K.1 (3 Playlists); 1.1 (3 Playlists); 1.1 (1) (2 Playlists); 1.1 (2) (2 Playlists); 1.1 (3) (2 Playlists); 1.1 (4) (2 Playlists); 1.1 (5) (2 Playlists); 2.1 (3 Playlists); 2.1 (1) (2 Playlists); 2.1 (2) (2 Playlists); 2.1 (3); 3.1 (3 Playlists); 3.1 (1) (2 Playlists); 3.1 (2) (2 Playlists); 3.1 (3) (2 Playlists); 3.1 (4) (2 Playlists).

WHRO EARTH SCIENCE ONLINE COURSE (6 Learning Objects)

Earth Science Bubble Pop; Earth Scientist Challenge; The Branches of Earth Science; The Branches of Earth Science Review; Inference or Observation; The Scientific Method.

WHRO HEALTH & PE 10 ONLINE COURSE (139 Learning Objects)

The Human Body; Like a Machine: The Human Body and a Car; Setting Goals; Eleven Systems, One Body Practice; In the Garage or out on the Road?; Physical Activity Models Specification Guide; Active vs. Sedentary Practice; Choosing the Right Fuel: Introduction to Good Nutrition; Choosing the Right Fuel: Introduction to Good Nutrition Printable; Introduction to Good Nutrition Practice; Fast Food Fuel; Using Regular When You Need Premium; Reducing Health Risks Practice; Maintaining the Machine; My Fitness Plan; How Fit Are You? Practice; Healthy Eating Habits; Healthy Eating Habits Printable; Reaching Fitness Goals Practice; 4 Components of Health; Maslow's Hierarchy of Needs; Managing Stress; Achieving Good Mental and Emotional Health Practice; Emotions; Emotions Printable; Developing a Positive Self-Image Practice; Types of Relationships; Type of Relationships Printable; Healthy vs. Harmful Relationships Practice; Suicide Prevention; Suicide Prevention Practice; Group Activities; Resolving Conflict and Avoiding Danger; Problem Solving Today and in The Future Practice; Simple Stretching and Simple Breathing; Strong Mind, Strong Body Practice; Your Joints; Bike Trip; It's Alive: Bones; Bones Practice; Types of Muscles and Connective Tissue; Types of Muscles and Connective Tissue Printable; Joints; Joints Printable; Muscles Practice; Athletic Training; Sports Conditioning Practice; Activity and Your Muscles; Aerobic and Anaerobic Respiration; Weight Training and Your Muscles Practice; Avoiding Alcohol: Making Difficult Decisions; Myth or Fact?; Short-Term Effects of Alcohol; Stages of Alcoholism; The Effects of Alcohol Practice; Alcohol and Your Blood; Alcohol and Your Blood Printable; Drinking and Driving Don't Mix; Drinking and Driving Practice; In the Numbers: Smoking Facts; In the Numbers: Smoking Facts Printable; Effects of Tobacco Practice; Categories of Drugs; Common Drugs; Effects of Drugs Practice; Movement Practice; Common Safety Measures; Staying Safe Practice; Types of Violence; Stop Violence; Stop Violence Printable; Self-Defense; Self-Defense Printable; Reacting to Violence Practice; What Disease Is It?; Pathogens; Major Barriers Against Pathogens; Major Barriers Against Pathogens Printable; Protection Against Communicable Diseases; Protection Against Communicable Diseases Printable; Communicable Diseases Practice; Non-Communicable Diseases Flashcards; Non-Communicable Diseases; Non-Communicable Diseases Practice; Common Safety Measures; Recreational Activities Safety Manual; Recreational Activities Safety Manual Printable; Recreational Activities Practice; First Aid Steps: General Procedures; First Aid Steps: Secondary Procedures; First Aid Procedures Practice; Preventing Intentional and Unintentional Injuries; Crisis Management; Crisis Management Practice; Settling a Claim; Settling a Claim Printable; Effective Communication; Mediation; Mediation Printable; Conflict Resolution and Meditation Practice; Yoga Poses I; Yoga Poses II; Mind, Body, and Spirit Practice; What Would You Do?; Influence of Emotions and Peers Making Healthful Decisions; Emotions, Peers, and Decision-Making Practice; Traffic Light Model; Exercising Self-Control Practice; Qualities of Leadership; Qualities of Leadership Printable; Physical Activities for Two Practice; Healthcare Careers; Health Science Skills; Health Science Skills Printable; Becoming a Productive Citizen Practice; Your Community's Environment; Environmental Health; Conserving and Recycling; Environmental Influences on Individuals Practice; Community Health and Wellness Terms; Access to Healthcare and Medical Services; Social Health Issues; Why Volunteer; How to Volunteer; Community Health and Wellness Practice; Staying Healthy After High School; Healthy Choices in College and Careers Practice; Technology and Tracking Your Fitness; Technology and Tracking Your Fitness Printable; Using Technology Tools for Health Practice; Internet Safety Scenarios; Staying Safe in the Digital World Practice; Determining Family Health Habits; Family Health and Habits; Healthy Lifestyle Plan; Family Health Habits Practice; Pilates Exercises; Pilates Practice.

WHRO FRENCH I ONLINE COURSE (122 Learning Objects)

French Names; L'alphabet français; L'alphabet français Printable; La pratique; French Diacritical Marks; French Diacritical Marks Printable; Les nombres 1 à 19; Les nombres 1 à 19 Printable; Asking Questions; Numbers and Your Age Practice; History of the French Language; The Francophone World; French and the Francophone World Practice; Les nombres 20 à 39; Les nombres 20 à 39 Printable; Calendar Practice; Who's That? Practice; Making Conversations Personal; Hand Gestures; How Are You? Practice Using "The"; Using "The" Printable; Personal Pronouns; What Is It? Practice; Using Verbs; What Do You Like and Dislike? Practice; Paris; Paris Practice; Les cours Flashcards; Système scolaire français; School Courses Practice; Les cours; Les fournitures scolaires; La technologie; Les activités dans la classe; Les

activités dans la classe Printable; In Class Practice; Les couleurs; Colors and Adjectives Practice; Les nombres; Les nombres 40 à 59; Time Practice; Tout sur la France; Tout sur la France Printable; Système de transport; Système de transport Printable; Bâtiments importants et monuments; Personnalités françaises; France Practice; Family Details; French Adjectives; Vocabulary Game; My Family and Yours; My Family Practice; Vocabulary Matching; The Être Song; Le Verbe Être Practice; Adjective Vocabulary; French-English Cognates; Modifying Adjectives; Descriptions of People; Modifying Adjectives Practice; Adjectives and Description; Using Possessive Adjectives; Possessive Adjectives Practice; Canada; Canada Practice; The Menu; The Culture of Food in France; Find the Food; The Menu Practice; Service in French Restaurants; To the Restaurant Practice; The Verb Prendre; The Verb Prendre Practice; Belgium; Belgium Practice; What's the Gender?; Going to Town and the Pronoun On Practice; Match the Subject Pronouns; À + le/la/les; Aller, À and De, and Arriver Practice; Aller Tic-Tac-Toe; Near Future Tense; Negation; Using Infinitives After Aller Practice; Switzerland; Switzerland Practice; Food Items Vocabulary; Using Vouloir and Pouvoir; What Do You Want to Eat? Practice; The Partitive; The Partitive Printable; The Partitive Practice; Le Maghreb; Northwest Africa Practice; Les vêtements; Les vêtements Printable; Clothes Practice; Types de magasins; Types de magasins Printable; Décrire les vêtements; Going Shopping Practice; The Verbs Acheter and Préférer Practice; The Verbs Mettre and Porter Practice; French Conversation; Les questions; Interrogative Words Practice; Martinique, Guadeloupe, and Haiti; The Caribbean Practice; Leisure Activities; Leisure Activities Printable; What Do You Do Each Season?; What Do You Do Each Season? Printable; Dire l'heure; Leisure Time Practice; Responding in the Negative; Negative Words Practice; The Present Tense of Regular -ir Verbs Practice; Tahiti; Tahiti Printable; Tahiti Practice.

WHRO PSYCHOLOGY ONLINE COURSE (69 Learning Objects)

Psychology, Science or Common Sense?; Popular Choice; Pioneers of Psychology Practice; Perspectives in Psychology; Perspectives in Psychology Practice; Research Methods; Ethical Guidelines; Psychological Research Practice; Communication of Neurons; Neurotransmitters; Nervous and Endocrine System Practice; Facts or Myth Brain Warm-Up; Evolution of Understanding the Brain; Brain Tour; Brain Practice; Photo Illumination; Sensory Thresholds; Signal Detection Theory; Principles of Sensation Practice; How Light Works; Vision Practice; Sound Waves and Limits; The Auditory System: How Hearing Works; Sound Decibels; Hearing Review; Smell, Taste, and Touch; Smell, Taste, Touch, and Other Senses Review; Sleep Deprivation Survey; The Sleep Cycle; Sleep Disorders; Why Do We Dream?; Sleeping and Dreaming Review; Hypnosis Review; Categories of Drugs; Psychoactive Drug Review; Nature vs. Nurture Review; Child Development Warm-Up; Prenatal Development; Temperaments of Newborns; Physical Changes During Adolescence; Teens, Parents, Friends, and Identity; Adolescence Review; Young Adulthood Printable; Middle Adulthood; Late Adulthood; Adulthood and Aging Practice; Experiment on Classical Conditioning; Classical Conditioning Matching Review; Operant Conditioning and Reinforcement; Operant Conditioning and Observational Learning Review; Encoding; Storage; Memory Review; Strategies for Problem Solving; Obstacles for Solving Problems; Problem Solving and Cognitive Principles Review; Dot Puzzle Solution; Origins of Intelligence Testing; Theories of Intelligence; Intelligence Review; Cognitive and Emotional Theories of Motivation; Motivation Review; Theories of Emotion; Communicating Emotions Through Facial Expressions; Emotion Review; Stress Bingo; General Adaptation Syndrome; Managing Stress; Stress and Coping Review.

Education Topics on Another View, Educationally Speaking, and HearSay in 2016-2017

Another View

Greg Scott – Cover Three Foundation

July 22, 2016

This Another View feature story looks at a program created by former defensive lineman Greg Scott. Scott and his eight member staff, work diligently to improve the lives of children in Southampton County. Scott's "Cover Three Foundation" has three objectives: to reach, teach and feed area youth. During the summer when free and reduced lunches are not available, 'Cover Three' vans and trucks hit the road, delivering nutritious lunches to 45 different locations, feeding 3,500 children every day.

Pushout: The Criminalization of Black Girls in School

September 16, 2016

On the next Another View an open and honest conversation with author and journalist Monique Morris, author of "Pushout: The Criminalization of Black Girls in Schools." In her book, Morris shares compelling stories of girls who have been marginalized and degraded, according to Morris, by the very institutions designed to teach them to be successful in society. She talks about how zero-tolerance policies and judgment only serve to alienate girls who are already struggling with issues like poverty and difficult home lives. She also offers solutions that will allow Black girls to live and learn with dignity, respect and opportunity.

Contraband Museum Exhibit

September 22, 2016

There's a lot of history resonating from the walls of Fort Monroe in Hampton, Virginia. Built by enslaved labor, it would become a place of refuge for escaped slaves, some 240 years later! A new exhibit at the fort's Casemate Museum details this rich part of American history. It's called "Contraband: Fort Monroe becomes Freedom's Fortress." So sit back and relax as we take the tour, guided by museum director Robin Reed.

AV Round Table: Alternative Facts as Black History

March 10, 2017

Members of the Trump administration have made statements about Black history that are completely false, such as Ben Carson asserting that slaves from Africa were immigrants, and Betsy DeVos calling HBCU's "pioneers of choice". On the next Another View Round Table we'll talk about the danger of leadership in this country engaging in revisionist history. Join our Round Table Pundits - Roger Chesley, Columnist for the Virginian-Pilot; Carol Pretlow, Professor of Political Science with Norfolk State University; Bill Thomas, Community Activist; and Wil LaVeist, Author, Journalist and Talk Show Host.

Excellence Through Equity: An Update

March 17, 2017

Last year education leaders throughout Eastern Virginia took a hard look at the way our students are being educated. They realized that equality in schools - providing the same for everyone - only works when students are all in the same place and need the same things to succeed. Instead, it has become necessary to provide equity in education - honoring that all students are different and will need different things to succeed. So how does that translate into the classroom? On the next Another View, we'll get an update on "Excellence Through Equity". Our guests include Jim Roberts, PhD, Superintendent, Chesapeake Public Schools; Sheli Porter, Director of High School Curriculum and Instruction, Chesapeake Public Schools; and Rashard Wright, Chief Schools Officer, Virginia Beach Public Schools.

Educating Our Black Boys – Part 1 (Parkview Elementary Program)

March 27, 2017

This Another View feature story looks at a mentoring and tutoring program for 4th and 6th grade African American males at two Portsmouth elementary schools: Parkview and John Tyler. The program is under the direction of Portsmouth School Board Member Cardell Patillo.

Educating Our Black Boys – Part 2 (Presidential Men’s Academy)

March 27, 2017

For the nearly three dozen young men who make up Wilson High School’s ‘Presidential Men’s Academy,’ “...being a part of this group has been life changing.” The program offers mentoring, tutoring, and comradery for high school students.

Another View Special Edition: Educating Our Black Boys

March 30, 2017

By any measure on the education spectrum, African American boys are at the bottom - except when it comes to discipline, drop outs and detention. Why does this particular group struggle so much to get a good education? What is happening in our schools to prevent Black boys from excelling? On this special edition of Another View we'll talk with Educator and Author Dr. Marco Clark, and Attorney Amos Jones about breaking the "cradle to prison" pipeline and helping our Black boys succeed.

William Williams – Granby High Student Empresses Steve Harvey

April 28, 2017

Granby High School sophomore, William Williams impressed comedian/talk show host Steve Harvey so much with his drive and determination that Harvey has promised to send William to college! The two met after William was selected to attend the Disney Dreamers Academy and brought the audience to their feet when he recited a spoken word poem he'd written about being bullied.

Another View Round Table: State of Black America

May 12, 2017

The National Urban League just released its 2017 State of Black America Report and the clarion call is to "protect our progress". The report sounds the alarm about the Trump administration's shift of funding away from the Departments of Health, Education, Housing and Labor to military funding; the call from Attorney General Jeff Sessions to review consent decrees where policing patterns revealed ingrained racial bias, systemic civil rights violations and the regular use of excessive force; and the social cancer of hate that continues to permeate our public discourse. On the next Another View we'll talk about this new report, as well as efforts to defund historically black colleges and universities (HBCUs). Journalist, author and talk show host Wil LaVeist; community activist Bill Thomas, NSU professor Carol Pretlow and guest pundit Dr. Eric Claville of Hampton University join us for the next Another View Round Table.

Educationally Speaking

Reviving Vocational Education, Segment 1

February 28, 2017

We speak with Sara Lockett, Director of Career and Technical Education for Virginia Beach City Public Schools and David Swanger, Director of Virginia Beach Schools’ Vocational and Technical Center, about how "VoTech" has changed over the years. We'll also explore what's new in vocational education, and discuss how students entering the workforce with a certification have a 'leg up' on those with a four-year college degree.

Reviving Vocational Education, Segment 2

March 1, 2017

Vocational education can step in to areas where significant skill gaps are identified within business and industry. We talk with Mike Taylor, Director of the Advanced Technological Center at Old Dominion University, about the key elements vocational education provides in an ever-changing workforce.

Reviving Vocational Education, Segment 3

March 2, 2017

It's not just shop anymore! Technological advances are driving students to explore paths in highly-focused fields. We continue our conversation with Sara Lockett and David Swanger from Virginia Beach City Public Schools and Mike Taylor of Old Dominion University.

Reviving Vocational Education, Segment 4

March 3, 2017

We examine vocational education in work and in practice by speaking with Krista Gray, owner of Krista Gray Hairstyling in the Sola Salon Suites. Her career path through vocational training all started with a very bad haircut.

The Science of Smart, Segment 1

March 6, 2017

Jennifer Carson, coordinator for the K-12 World Languages Program for the Virginia Beach City Public Schools discusses how students receive and retain information much differently than in the past. The school system implemented a successful elementary and middle school language immersion program that presents instruction in a dual language format.

The Science of Smart, Segment 2

March 7, 2017

Claire Berube, Associate Professor at Hampton University discusses life-long learning and how you can exercise your brain and continue cognitive growth.

The Science of Smart, Segment 3

March 8, 2017

Allison Farnsworth a testing specialist in the Virginia Beach City Public Schools addresses what parents can do to keep their children engaged in learning and successful in their studies.

The Science of Smart, Segment 4

March 9, 2017

Claire Berube, Associate Professor at Hampton University addresses the cultural and intellectual divide in math and science and the perception that women are not as proficient in STEM.

The New GI Bill: From Boots to Books, Segment 1

March 13, 2017

As veterans exit the military, a usual destination is back to school to complete their degree. Bob Clark, director of Military Activities Liaison and Special projects at Old Dominion University, discusses the challenges and opportunities for returning veteran students.

The New GI Bill: From Boots to Books, Segment 2

March 14, 2017

A focus on veterans returning to the classroom and their immersion into campus life. Today, a discussion with Navy Veteran Amanda Harrison who is a student at ODU with a double major in Creative Writing and Film.

The New GI Bill: From Boots to Books, Segment 3

March 15, 2017

Tidewater Community College has a Veteran Connection Center where returning service members have a support network to ease their transition back into the classroom. Bill Brown and Veronica Cianetti discuss how the center focuses on veteran needs by providing a safe campus location for these non-traditional students.

The New GI Bill: From Boots to Books, Segment 4

March 16, 2017

A continued exploration of the new GI Bill. Hunter Stackhouse, an Army veteran, and Megan Roche, a Navy veteran, both students at Tidewater Community College, talk about returning to the classroom and how veterans often provide a mentoring and leadership role to younger more traditional college students.

Who Needs an English Major: The Future of Liberal Arts Education, Segment 1

March 20, 2017

Dr. Scott Miller, president of Virginia Wesleyan College presents a discussion on the importance of liberal arts in America's colleges and the need for arts-focused education.

Who Needs an English Major: The Future of Liberal Arts Education, Segment 2

March 21, 2017

Dr. Tiffany Franks, President of Averett University in Danville, Virginia discusses the importance of the college experience being one where students are able to apply what they are learning in the classroom. She responds to a statistic where 85% of today's college students do not take a history class.

Who Needs an English Major: The Future of Liberal Arts Education, Segment 3

March 22, 2017

We meet Marty Blow who is an instructional designer. She came from a background where vocational training was the expected career path and there were limited expectations for a liberal arts education. She discusses how technology has inundated our lives and the liberal arts education develops these innovators who have changed our lives.

Who Needs an English Major: The Future of Liberal Arts Education, Segment 4

March 23, 2017

Dr. Scott Miller and Dr. Tiffany Franks describe how the liberal arts experience is much more than book learning. It's a discovery of issues and problems facing the world.

Educating Our Black Boys, Segment 1

March 27, 2017

This week we are looking at the achievement gap and a focus on black males in our education system. Maxie Lee with the Norfolk Public Schools discusses how this is a cultural and social issue that needs addressing in order to see positive change in our schools.

Educating Our Black Boys, Segment 2

March 28, 2017

This episode focuses on Portsmouth School Board Member Cardell Patillo's Male Leadership Academy. It was created to help young African American males succeed in school and life.

Educating Our Black Boys, Segment 3

March 29, 2017

We speak with Dr. Donna Elliot, Assistant Principal at Kempsville High School in Virginia Beach. She says that a shifting demographic towards greater diversity in the school division was the catalyst for increased cultural awareness in the classroom. Schools need to be aware that not all students fit a singular mold and there needs to be an understanding towards the needs of kids from different backgrounds.

Educating Our Black Boys, Segment 4

March 30, 2017

Another View Producer Lisa Godley investigates the Presidential Men's Academy at Wilson High School. The program, which was founded by teachers Curtis Williams and Paul Wilson, offers mentoring and academic support for about three dozen students.

HearSay with Cathy Lewis

The Summer Slide

July 13, 2016

On today's HearSay, Cathy Lewis is joined by local educators who are engaging area students in an attempt to halt what is known as the "summer slide," a term used to describe students forgetting what they learned the previous year over the course of summer vacation. We learn what techniques they're employing to keep students learning all year long.

Plagiarism

July 25, 2016

Plagiarism – it's a term you might not have heard since school, but loomed above your head with every essay turned in. Last week, the term came again into our collective consciousness when potential first lady Melinda Trump was accused of copying a Michelle Obama speech. Today we're talking with Old

Dominion University professors who promise failing grades for such an atrocity. We'll have a discussion digging into what's so wrong about plagiarism, ways to avoid it, and how much easier it is to do – even by accident – in the digital age.

Tidewater Reads: Shine, Shine, Shine
August 23, 2016

In collaboration with libraries across Hampton Roads, Tidewater Reads is an initiative to promote the value of reading and build community by getting everyone on the same page of a good book. This year's book is Norfolk author, Lydia Netzer's, New York Times Notable Book of 2012, "Shine Shine Shine." Focused on a marriage filled with obstacles and uncertainty, the novel sheds the veil on seemingly mundane struggles every family faces. We'll talk with Lydia Netzer, librarians from across the region, and NASA scientists about the book and how she uses real science in her science-fiction influenced storytelling.

HearSay Candidate Conversations: VA 3rd
October 12, 2016

Join us for another installment of our 2016 Candidate Conversation series. On today's installment, host Cathy Lewis is joined by the candidates from the 3rd Congressional District of Virginia. The Virginia 3rd includes all of the independent cities of Petersburg and Portsmouth, parts of the independent cities of Hampton, Newport News, Norfolk and Richmond, all of the Counties of Charles City and Surry, and parts of the Counties of Henrico and Prince George.

Future of FAFSA
October 13, 2016

Today, we're joined by Bonnie Sutton, President and CEO of ACCESS College Foundation, as we examine the recent changes to the Free Application for Federal Student Aid (FAFSA). The changes include a shift in the filing period, and the date of income and tax information. High school and college students across the nation will be impacted; we'll consider what this means for them today at noon. Have you ever filed for FAFSA? Join us with your thoughts live by phone 440-2655 or 800-940-2240 or connect with us on Facebook and Twitter. We'll also talk with the Superintendent of the U.S. Naval Academy, Vice Admiral Ted Carter.

Election Issues: Education
October 24, 2016

Each week in the days leading up to the November election, we'll focus our attention on a specific issue shaping the campaigns of the candidates. This week, we'll examine education as an election issue. Where do the presidential candidates stand on this topic? We'll discuss the role education has played in the election thus far, and the impact of the election on education looking ahead.

Hidden Figures of Hampton Roads: Roles in Space Exploration & STEM Education
December 14, 2016

Houston isn't the only one to call when there's a problem! In honor of the upcoming film *Hidden Figures*, today we'll talk to NASA Chief Historian Bill Barry about his work on the film and what he's learned about our hometown heroes and their contributions to science. Virginia Air & Space Center CEO Bob Griesmer will also join us to talk about the educational opportunities the Center provides to get kids interested in the STEM fields.

Digital Citizenship
January 25, 2017

In the 21st century, much of our lives are lived in the digital space, and with that convenience and interconnectivity comes new challenges. Today we'll explore how schools and cities are taking a "whole-community approach" to preparing residents and students to use digital media safely by avoiding dangers such as plagiarism, loss of privacy and cyber bullying. How do you safeguard yourself and make a positive impact within the digital space? We'll also talk with the cast and creative team behind the Little Theater of Norfolk's production of *The Farnsworth Invention*.

Children and Success | Oscar Predictions with Mal Vincent

February 23, 2017

Learning and achieving are unique processes for every individual and can easily be hindered by adversity. How can we help children succeed in spite of the obstacles? That's a question that author Paul Tough has attempted to answer in his new book *Helping Children Succeed: What Works and Why*. And later, the one and only Mal Vincent with his Oscar predictions! Join us at 440-2665 or connect with us on Facebook and share your favorite movies from 2017!

Mindfulness in Education | Faith, Freedom & Justice March

February 27, 2017

Mindfulness is "the basic human ability to be fully present, aware of where we are and what we're doing [...]." Today we'll talk with experts from the Holistic Life Foundation and Mindful Schools about the integration of mindfulness practices into America's education system. And later, this past weekend's Faith, Freedom & Justice March aimed to combat "a culture of discrimination and cronyism in Virginia Beach." We'll talk with march participants about their experiences and what they have planned for the future. Did you attend the march? Join us at 440-2665.

Old Donation School | ODU's ALICE

April 3, 2017

Old Donation School in Virginia Beach opens its doors today and will serve as a new home for 1,375 gifted students in second through eighth grade. We'll talk with Principal Dr. Kelly Hedrick and Chief Sustainability Officer Tim Cole about the impacts of the new facility on student learning. But first, Old Dominion University's production of ALICE, loosely based on Lewis Carroll's tales, opens April 5. Members of the cast and crew are in studio today to tell us about their take on the classic!

Girls & STEM Education

April 17, 2017

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.

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 at a PBS KIDS ScratchJr session at Bayview Community Center, Norfolk; WHRO's STEM Van at Bayview Community Center, Norfolk; Xuan Tran from Queens Lake Middle School, York County School Division, 1st Place Champion of The Virginian-Pilot Spelling Bee; a scene from the Geometry Video Course, Module 2, Topic 1 – Angles Formed by Transversal Intersection Parallel Lines.