DO EdTech 2019 Conference

Codings for Educators 10:00am to 12:00pm
Participants will learn the fundamentals of coding and how to support their students as computational thinkers. This workshop is designed to help teachers understand the building blocks of coding. Online platforms such as MakeCode, Scratch, and Code.org will be discussed. Participants will have the chance to use Ozobots, Dash and Dot, Makey Makey's and other coding products hands-on from the ONC BOCES Media Library.

BreakoutEDU for the Classroom 12:45 to 2:45pm
Breakout kits can help teach teamwork, problem-solving, critical thinking, and troubleshooting. They can be tailored for all content areas. Participants will solve a Breakout mystery and will also learn how to create & design their own games.

Fall Resources

Animal and Plant Defenses SK 673, Study Kit. P. Amplify Science, 2018
Bats SK 168, Study Kit, PI, 2001, Grades K-5
Birds of Prey Study Kit, P, Folkmanis, Inc.
Bears SK 501, Study Kit, PI, 2003
Bear Puppet/Book Set SK 604, Study Kit, P, Folkmanis, Inc.
Forest SK 504, Study Kit, PI, 2003
Forest Life Puppet/Book Set SK 640, Study Kit, PI, Folkmanis, Inc.
Nocturnal Animals SK 172, Study Kit, PI, 2001
Squirrel Book/Puppet Set SK 621, Study Kit, PI, Folkmanis, Inc.

School Bus Safety Month

Jake and "Buddy" are learning about personal safety when getting on and off the school bus. "Buddy" tells Jake about the danger zones around the bus and why it's important to be extra careful until he's safely on the curb again. Jake learns that showing respect and knowing the rules will also help make the bus ride safer. Finally he learns about strangers when going to or from school and the importance of staying with others.

Fire Safety Month

This program will help viewers get proactive about fire prevention and fire preparedness. What can they do to be ready in case there is a fire in their homes? What do they need to remember to escape from a burning building? What can they do to prevent fires from starting in their homes? What is the fire triangle? What should they do if they spot outdoor fire hazards? The answers to these questions are covered in depth with detailed graphics, diagrams, and exciting video. On-screen multiple-choice reviews at the end of each segment reinforce important concepts and make learning fun.

Meet the Helpers | Firefighters are Helpers: In-Depth video, Preschool/Kindergarten - Primary, WUCF, 2018
Dive deeper into a firefighter's career and find out how this Helper assists in emergency situations. Make A Plan: Download, print and complete these resources to practice emergency preparedness in your home or classroom. Explore the entire Meet the Helpers collection!
Vaping: More Dangerous Than You Think — DV 2098, DVD, JHA, 20 min., HRM
This video and print curriculum addresses the new craze of vaping drugs (nicotine, alcohol, liquid marijuana and others). Through interviews with teen users and medical professionals, this program clearly demonstrates the serious health risks of vaping, including drug overdose, instant high or drunk, alcohol poisoning, and impaired thinking and decision making. Explains that vaping delivers an unknown dose of drugs or alcohol directly to the brain. Vaping nicotine carries the additional risk of accidental swallowing of liquid nicotine which has put hundreds of teens into ERs. Vaping pens make it easy to disguise marijuana use because there is little or no odor. Includes teacher resource book, student handouts and pre/post tests in digital format.

What’s Up With E-Cigarettes? — DV 2102, DVD, JHA, 20 min., HRM
Teens’ use of e-cigarettes and other electronic vaping devices has skyrocketed. Kids think e-cigarettes are a “safe” alternative to smoking. This program gives students the facts and urges extreme caution. Viewers learn the truth about nicotine addiction and its impact on health. They will understand that the supposedly "safe" water vapor contains other harmful chemicals as well. E-cigarettes are unregulated by the FDA and the amount of nicotine in each e-cigarette varies, so that the user never knows what’s inside. E-cigarettes are not approved by the FDA for smoking cessation. Viewers also learn that big tobacco companies are using advertising techniques to lure in users and hook them for life. Includes teacher’s resource book, student handouts and pre/post tests in digital format.

Cybersecurity: Crash Course Computer Science #31 — video, Senior High, 2018
Cybersecurity is a set of techniques to protect the secrecy, integrity, and availability of computer systems and data against threats. In today’s episode, we’re going to unpack these three goals and talk through some strategies we use like passwords, biometrics, and access privileges to keep our information as secure, but also as accessible, as possible.

Cyberwar Is More Common than You Think — Bloomberg Quick Takes Streaming video, Senior High, 00:02:28, Bloomberg, 2018
Cyberwarfare accomplishes for rival nations what used to require bombs or guns. This Bloomberg QuickTake examines what we know and don’t know about countries battling it out in cyberspace.

Students learn why it is important to choose passwords that are hard to guess and why they should not share their passwords with others. Students are challenged to think about ways that digital technology can be used to enhance or damage their reputations.

TEDTalks: Avi RubinAll - Your Devices Can Be Hacked — video, 00:16:52, TED, 2012
Could someone hack your pacemaker? At TEDxMidAtlantic, Avi Rubin explains how hackers are compromising cars, smartphones and medical devices and warns us about the dangers of an increasingly hack-able world. Rubin is a professor of computer science and director of the Health and Medical Security Lab at Johns Hopkins University.

Stopping Verbal Bullying — Streaming Video Intermediate - Senior High, Connect With Kids, 2006
Wounding deeper than punches and kicks, taunts and insults can leave kids feeling worthless. This Emmy Winner explores the best ways to defend against these “weapons”.

Start Smart: Bullying and What You Can Do! — Streaming Video Primary - Junior High, 00:14:44, Wonderscape Entertainment, 2016
The show helps students identify warning signs, implement open communication, find the appropriate support, and model kindness and respect. An accessible and relatable peer host provides encouragement and instills confidence. Detailed graphics, diagrams, and exciting video reinforce key concepts.

For National Bullying Prevention Month, we’re giving the words “friendly competition” a new meaning! How many of these kind acts can your students complete? This bingo card is available in English and in Spanish.

Crash BC 90 — Book Collection, J, PERMA-BOUND
Grades 5-9. Crash Coogan, a seventh-grade football star, has been an aggressive person from the time he was very young; sometimes, he is too aggressive. He enjoys his rough, macho behavior until he meets an unusual neighbor who forces him to think about his life and his way of treating others. A rare look into the life of a bully in an unforgettable story about stereotypes and surprises. Author: Jerry Spinelli

HEALTH RESOURCES
The Great Fire BC 298 977.3; Jim Murphy; Lexile: 1130L; Book Collection, IJ, Scholastic 1995; 9781415698099
Grades 5-9. Includes bibliographical references (page 139-140) and index. Photographs and text, along with personal accounts of actual survivors tell the story of the great fire of 1871 in Chicago.

CHRISTOPHER COLUMBUS

Educator Resources on Brainpop JR.
Grades K-3. In this movie, you’ll learn about the explorer Christopher Columbus, who set out to prove that the world was round and not flat. You’ll find out where he landed on his voyages from the Old World to the New World. You’ll also learn how he forced native people into slavery and called them Indians because he believed he had landed in India. Did Columbus really discover America?

CHILD HEALTH MONTH

Head Lice: An Itchy Problem
video, Preschool - Intermediate, 00:12:19, Marsh Media, 2013
Head Lice: An Itchy Problem teaches students everyday precautions that they can take to keep from contracting head lice. The program explains that anyone can get head lice, the symptoms of head lice, the treatment for head lice, the precautions that need to be taken to prevent re-infestation, but most importantly, it provides students with the information they need on how they can guard against contracting head lice in the first place.

Halloween Safety Tips (Chapter 3)
This video reviews Halloween safety tips for carving pumpkins, home safety, and candy. 2016 EV Productions, Inc. Grades PreK-5

Halloween Safety Tips (Chapter 2)
This video reviews Halloween safety tips for Trick-or-Treating on Halloween. 2016 EV Productions, Inc. Grades PreK-5

Halloween Safety Tips (Chapter 1)
This video provides (8) tips for celebrating Halloween in a safe and fun manner. 2016 EV Productions, Inc. Grades PreK-5

The Legend of Sleepy Hollow BC 165 -FIC-; Washington Irving; Lexile: 1460L; Book Collection, IJ, ; 0688052762
Grades 5-8. Here you will meet the tall, gangly Ichabod Crane, the schoolmaster who is as much in love with Katrina Van Tassel’s fortune as he is with the beautiful Katrina herself. You will also meet Ichabod’s rival, the hotblooded brawler and prankster Brom Bones. And you can decide for yourself if Ichabod Crane really met the Headless Horseman on that dark, lonely road late one night. This edition of the complete, unedited text faithfully reproduces all eight of Rackham’s colorful paintings, twenty-four of his pen and ink drawings, and his colorful end papers. Washington Irving.

Super Fab Lab: Green Slime
video, Preschool/Kindergarten - Primary, 2011
It’s Halloween, and the kids are learning how to make icky, gooey green slime! The key ingredients are corn starch, water and green paint. Learn how different amounts of each ingredient changes the consistency of the slime. Discover how the slime is a substance that can be both a liquid and a solid.

There Was an Old Lady Who Swallowed a Bat!
audio, Preschool/Kindergarten - Primary, 00:04:15, Scholastic, Inc., 2009
What won’t this old lady swallow? This time around, a bat, an owl, a cat, a ghost, a goblin, some bones, and a wizard are all on the menu. A Halloween themed twist on the classic “little old lady” books. Author of Feature Book: Lucille Colandro.

Frankenstein DV 846, DVD, JH, 123 min., An adaptation of Mary Shelley’s famous novel directed by Kenneth Branagh.
Would you like to learn electronics, with a all-in-one board that has sensors and LED’s built in? Our Digital Library Resource Specialist-Sarah Livingston-will be doing a workshop on November 18th.

The Circuit Playground Express kits from the Media Library will allow students to learn the basics of coding and electronics as well as create a wide range of projects from moving Sea Turtle Robots and Soil Moisture Sensors to Music Makers and Light Bots. MakeCode is a free, open source platform and does not require any software installation, it works on any computer with a web-browser. You can use it with Mac, Windows, Linux, Chromebooks.

Participants will explore the capabilities of one of the newest additions to the Media Library, the Circuit Playground Express, a powerful microcontroller with built-in sensors, lights and sound. Designed for programmers of all levels, the CPX can be used with Microsoft’s MakeCode editor (an easy to use drag and drop web interface) and more advanced options such as CircuitPython and Arduino IE. The CPX is also designed to run with Code.org’s CS Discoveries physical computing unit. This workshop will cover the basics and is for all skills and interest levels. In the first part of this hands-on workshop, we will get started with MakeCode and work step-by-step through the basics: flashing the neopixel lights, using the buttons and connection pads, and triggering sensors. We will also discuss the other platforms that the CPX can be used with such as Code.org and CircuitPython.

In the second part of the workshop, we will work on one complete project using the Circuit Playground Express. The Circuit Playground Express can be used alone or in conjunction with the Adafruit Crickit for more intricate projects.

You can bring your own laptop or Chromebook or use one of ours for the day. Lunch is on your own.

Attendees will be cleared to borrow the Circuit Playground Express Kits from the Media Library.

Circuit Playground Express ST 677, STEAM, IJH, 2019