

CYBERCAMP INSTRUCTIONAL ACTIVITY SCHEDULE

School Division(s): [Richmond County Public Schools](#)

School: [Northern Neck Technical Center \(Camp 2\)](#)

Camp Begin Date: [July 11, 2016](#)

Camp End Date: [July 27, 2016](#)

Days of Week: [Monday – Thursday](#)

Daily Instruction Begin Time: [8:00 AM](#)

Daily Instruction End Time: [2:30 PM](#)

Specify alternate schedules below

Lunch Period (begin/end): [11:30-12:00](#)

Total instructional hours including guest speaker(s) field trip(s) and culminating [70](#) Enrollment: [25](#)

Students from Westmoreland County, Northumberland County, and the Town of Colonial Beach Public Schools participating

July 11 th -14 th			
Monday	Tuesday	Wednesday	Thursday
8:00 A.M. – Welcome and introductions PRETEST 9:30 - 11:30 STEM EDA Electricity Introduction to electricity Make a Circuit How Batteries work Make a wet cell battery 12:00 – 2:30 Series and Parallel Circuits and Switches Make circuits Design a Flashlight	Humanities Content Cyber-attacks lead to a city wide black out 9:40 – 11:00 Cyber Society Digital Technology, Friendship, and Personal Relationship Examine the impact of technology on friendship and relationships 11:00-11:30 i. Hello World 12:00 -1:30 1. Interact with Boe-Bot to learn introductory coding & keywords 1:30 – 2:30 Current Events Research cyber-security events and prepare a briefing on an event	8:00 9:00 Current Events Research cyber-security events and prepare a briefing on an event 9:00 – 11:30 ASCII and Timers Use Boe-Bots to practice with variables and timing statements 12:00 -2:00 Digital Technology and Privacy Evaluate the nature and value of privacy 2:00-2:30 Timers and LEDS (Intro)	Field Trip to Dahlgren Naval Base 8:00 Departure Visit to IWSL with V42 Travel Lunch Visit to DeVIL with A41 4:00 Arrival back to NNTC

July 18 th -21 st			
Monday	Tuesday	Wednesday	Thursday
8:00 – 9:30 Timers and LEDS Construct an LED circuit with Boe- Bot for a visual connection to processing speed 9:30 – 12:30 Networks Discuss network terms and definitions Identify sample layouts of networks Students will construct a live “human” network using ropes as network connections and envelopes as data to observe how information travels from device to device. 12:30 – 2:30 Networking Minecraft Topology	8:00 – 10:00 Digital Technology and the Human Personality Discuss the intellectual and emotional traits that can be cultivated through the use of technology and consider how to revise their personal use of technology to enhance those traits. 10:00 – 1:30 Basic Navigation and sub routines Begin coding movements into Boe-Bot Practice different codes 1:30 -2:30 Malware Discuss malicious intent and explore varieties of malware to which cyber citizens may be exposed	8:00 -10:00 Turning Maneuvers Work through the programing design process to refine movements with the Boe- Bot 10:00-11:30 Digital Technology, Harms and Trusts Discuss the intellectual and emotional traits that can be cultivated through the use of technology and revise personal use of technology to enhance these traits 12:00 – 2:30 Infrared Navigation (CL) Construct infrared navigation circuits and safely navigate Boe-Bots around obstacles	ECPI Field Trip Departing from Northern Neck Technical Center Arriving in ECPI, Richmond Virginia Innsbrook 4305 Cox Rd. Glen Allen Virginia 23060 Arriving back at the Northern neck Technical Center at 4:00PM

Monday	Tuesday	Wednesday
8:00 – 8:15 Infrared Navigation Review 8:20 – 11:30 Infrared Navigation (CLII) Use IR circuits to trigger additional Boe – Bots responses (i.e. speakers, LEDs, additional movements) 12:00 -2:30 IR Programmable Remotes (CLII) Use a programmable remote to control the Boe-Bot	8:00 -11:30 IR Programmable Remotes (CLII) Use a programmable remote to control the Boe-Bot Humanities content throughout the Robotics lessons, malicious content of a wireless device 12:00 – 2:30 Cyber Ethics Culminating Activity Develop an overall judgement on the benefits and costs of digital technology for now and future generations	8:00- 10:30 Mine Field Challenge 12:30 – 2:30 Awards Assembly, Project previews, parent visitation

Breakfast 7:30-8:00AM Lunch 11:30-12:00PM Departure 2:30PM