

## CYBERCAMP INSTRUCTIONAL ACTIVITY SCHEDULE

School Division(s): Newport News Public Schools School: Heritage High School Governor's STEM Academy

Camp Begin Date: July 18, 2016 Camp End Date: August 11, 2016 Days of Week: Monday-Thursday

Daily Instruction Begin Time: 7:30 am Daily Instruction End Time: 12:00 pm Specify alternate schedules below

Breakfast Period (begin/end): 7:30am -7:55am

Lunch Period (begin/end): 11:30am-12:00pm Total instructional hours including guest speaker(s) field trip(s) and culminating activity: 72

Enrollment 25

### WEEK 1 -- JULY 18<sup>th</sup> to July 21<sup>st</sup>

Monday	Tuesday	Wednesday	Thursday	Friday
<p><b>8:00-8:10-</b> Ice Breaker</p> <p><b>8:10--8:30</b> Intro to Cyber security Camp, Program Overview</p> <p><b>8:30-9:45</b> Intro to Robotics and Bots. Activity 1-Hello World.</p> <p><b>9:45-10:00 Break</b></p> <p><b>10:00- 10:50</b> Activity 2-ASCII and Timers</p> <p><b>10:50-11:30-</b>Activity: Cyber02 Presidential Platform</p> <p><b>11:30-12:00</b> Lunch</p>	<p><b>8:00-9:00:</b> IC3 Pre Test</p> <p><b>9:00-9:45:</b> Activity 3- Timers and LED's</p> <p><b>9:45-10:00 Break</b></p> <p><b>10:00-10:50</b> Activity 4- Basic Navigation and Subroutines</p> <p><b>10:50-11:30</b> Activity 5: Turning Maneuvers</p> <p><b>11:30-12:00</b> Lunch</p>	<p><b>8:00-9:45-</b> Activity: Cyber03 Presidential Platform</p> <p><b>9:45-10:00 Break</b></p> <p><b>10:00-10:30</b> Intro to Electricity. Make a circuit How batteries work</p> <p><b>10:30- 11:30</b> Activity: Cyber04 Current events project.</p> <p><b>11:30-12:00</b> Lunch</p>	<p><b>8:00-9:45</b> Cybersecurity Panel Discussion &amp; Interactive Presentation</p> <p><b>9:45-10:00</b> Break</p> <p><b>10:00-11:30</b> Complete Cyber04 Current events project.</p> <p><b>11:30-12:00</b> Lunch</p>	

## CYBERCAMP INSTRUCTIONAL ACTIVITY SCHEDULE

School Division(s): Newport News Public Schools School: Heritage High School Governor's STEM Academy

Camp Begin Date: July 18, 2016 Camp End Date: August 11, 2016 Days of Week: Monday-Thursday

Daily Instruction Begin Time: 7:30 am Daily Instruction End Time: 12:00 pm Specify alternate schedules below

Breakfast Period (begin/end): 7:30am -7:55am

Lunch Period (begin/end): 11:30am-12:00pm Total instructional hours including guest speaker(s) field trip(s) and culminating activity: 72

Enrollment 25

### WEEK 2 -- JULY 25<sup>th</sup> to July 28<sup>th</sup>

Monday	Tuesday	Wednesday	Thursday	Friday
<p><b>8:00-8:15</b> Review of previous lessons.</p> <p><b>8:15-9:00</b> Series and Parallel Circuits and Switches.</p> <p><b>9:00-9:45</b>-Designing a Flashlight.</p> <p><b>9:45-10:00</b> Break</p> <p><b>10:00-11:30</b> Introduction to Humanities and Cyber. Connections between physical person and cyberspace.</p> <p><b>11:30-12:00</b> Lunch</p>	<p><b>8:00-9:45</b> Continue lesson on Humanities. What does it mean to be a responsible cyber citizen?</p> <p>Discuss improvements cyber has made to the world today.</p> <p><b>9:45-10:00</b> Break</p> <p><b>10:00-11:30</b> Current Events Research cyber-security events and prepare a briefing of an event.</p> <p><b>11:30-12:00</b> Lunch</p>	<p><b>8:00-9:00</b> Digital Technologies, Harms and Trusts.</p> <p><b>9:00-9:45</b> Review of Networking.</p> <p><b>9:45-10:00</b> Break</p> <p><b>10:00-11:30</b> Construct live "human" network.</p> <p><b>11:30-12:00</b> Lunch</p>	<p><b>8:00-11:30</b> Field Trip – Virginia Air &amp; Space Center</p> <p><b>11:30-12:00</b> Lunch</p>	

## CYBERCAMP INSTRUCTIONAL ACTIVITY SCHEDULE

School Division(s): Newport News Public Schools School: Heritage High School Governor's STEM Academy

Camp Begin Date: July 18, 2016 Camp End Date: August 11, 2016 Days of Week: Monday-Thursday

Daily Instruction Begin Time: 7:30 am Daily Instruction End Time: 12:00 pm Specify alternate schedules below

Breakfast Period (begin/end): 7:30am -7:55am

Lunch Period (begin/end): 11:30am-12:00pm Total instructional hours including guest speaker(s) field trip(s) and culminating activity: 72

Enrollment 25

### WEEK 3 – August 1<sup>st</sup> to August 4<sup>th</sup>

Monday	Tuesday	Wednesday	Thursday	Friday
<p><b>8:00-9:45</b> Malware</p> <p><b>9:45-10:00</b> Break</p> <p><b>10:00-11:30</b> Review of Basic Navigation routines and turning maneuvers.</p> <p><b>11:30-12:00</b> Lunch</p>	<p><b>8:00-9:45</b> Infrared Navigation- Construct a pair of infrared navigation circuits to maneuver around obstacles.</p> <p><b>9:45-10:00</b> Break</p> <p><b>10:00-11:30</b> Infrared Navigation II - Speakers, LED's, and additional movements.</p> <p><b>11:30-12:00</b> Lunch</p>	<p><b>8:00-9:00</b> Program remotes.</p> <p><b>9:00-9:45</b> Prep for Expo &amp; Showcase</p> <p><b>9:45-10:00</b> Break</p> <p><b>10:00-11:30</b> CyberCamp 2016 program Expo Showcase</p> <p><b>11:30-12:00</b> Lunch</p>	<p><b>8:00-11:30</b> Field Trip to SPAWAR IT Department</p> <p><b>11:30-12:00</b> Lunch</p>	

## CYBERCAMP INSTRUCTIONAL ACTIVITY SCHEDULE

School Division(s): Newport News Public Schools School: Heritage High School Governor's STEM Academy

Camp Begin Date: July 18, 2016 Camp End Date: August 11, 2016 Days of Week: Monday-Thursday

Daily Instruction Begin Time: 7:30 am Daily Instruction End Time: 12:00 pm Specify alternate schedules below

Breakfast Period (begin/end): 7:30am -7:55am

Lunch Period (begin/end): 11:30am-12:00pm Total instructional hours including guest speaker(s) field trip(s) and culminating activity: 72

Enrollment 25

### WEEK 4 – August 8<sup>th</sup> to August 11<sup>th</sup>

Monday	Tuesday	Wednesday	Thursday	Friday
<b>8:00-9:45</b> Debates  <b>9:45-10:00</b> Break  <b>10:00-11:30</b> Infrared Navigation II.  <b>11:30-12:00</b> Lunch	<b>8:00-9:45</b> Infrared Navigation II- Construct a pair of infrared navigation circuits to maneuver around obstacles.  <b>9:45-10:00</b> Break  <b>10:00-11:30</b> IR Programmable Remote (Cyber Literacy II). Program remote to control Boe-Bot  <b>11:30-12:00</b> Lunch	<b>8:00-9:45</b> Programmable Remote (Cyber Literacy II). Program remote to control Boe-Bot continues  <b>9:45-10:00</b> Break  <b>10:00-11:30</b> IC3 Post Test  <b>11:30-12:00</b> Lunch	<b>8:00-11:30</b> Culminating Activity & End of Program Celebration  <b>11:30-12:00</b> Lunch	