Kentucky CTE

Computer Science: Cyber Literacy 1

Apply the fundamentals of electricity including the basic movement of electrons and experiments that include chemistry, circuitry, and magnetism. CL1-1	**1 Apply the fundamentals of electricity including the basic movement of electrons and experiments that include chemistry, circuitry, and magnetism.** CL1-1
Apply BASIC Programming including basic coding essentials through flowcharts, the use of simple programming languages, the use of simple programming tasks CL1-2	**2 Apply BASIC Programming including basic coding essentials through flowcharts, the use of simple programming languages, the use of simple programming tasks** CL1-2
Engage with the Parrallax® Boe-Bot® microcontroller as a platform for learning robotics fundamentals. CL1-3	**3 Engage with the Parrallax® Boe-Bot® microcontroller as a platform for learning robotics fundamentals.** CL1-3
Assemble robots to perform various functions through the implementation of sensors. CL1-4	**4 Assemble robots to perform various functions through the implementation of sensors.** CL1-4
Apply programming knowledge including the use of autonomous de pr co	**5 Apply programming knowledge including the use of autonomous devices and the use of programming components such as: conditional and unconditional loops, subroutines, variable manipulation** CL1-5

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as: conditional and unconditional loops, subroutines, variable manipulation CL1-5	
Relate electrical components like LEDs, piezo-crystal elements, infrared light, and tactile sensors to cyber CL1-6	6 Relate electrical components like LEDs, piezo-crystal elements, infrared light, and tactile sensors to cyber CL1-6
Illustrate real world applications and implications of computers and the internet in our society today CL1-7	7 Illustrate real world applications and implications of computers and the internet in our society today CL1-7
Deliberate the historical and societal context of cyber. CL1-8	8 Deliberate the historical and societal context of cyber. CL1-8
Engage in a lab and project-driven lesson regarding learning about cyberspace. CL1-9	9 Engage in a lab and project-driven lesson regarding learning about cyberspace. CL1-9
Engage in a lab and project-driven lesson regarding the ethical concerns about online behavior, cyber bullying, and cybersecurity. CL1-10	10 Engage in a lab and project-driven lesson regarding the ethical concerns about online behavior, cyber bullying, and cybersecurity. CL1-10
Engage in a lab and project-driven lesson regarding the ethical concerns about designing autonomous devices and artificial intelligence. CL1-11	11 Engage in a lab and project-driven lesson regarding the ethical concerns about designing autonomous devices and artificial intelligence. CL1-11