Curriculum

Category	Topics	Example Activities
First Principles of Security	1. First Principles of Security	 Posters Playing cards Slides Activities Quiz with Kahoot! Teacher presentations
Cybersecurity Ethics	 2. Ethics of Cybersecurity What is ethics? Why is an ethical mindset important to a cybersecurity professional? Codes of Ethics (samples) Ethical Dilemmas in Cybersecurity 	 Videos Ethics-Post Case studies Guest speaker: Ethical hacker
Cybercrimes and Cyber Laws	 3. Cyber Bullying and Other High-Tech Crimes Involving Michigan Kids Cyber Harassment & Text Messaging Cyber Bullying Identity Theft Child Pornography Computer Hacking 	 Invited talks Videos Case studies Teacher presentations
Online Safety	 4. Correct and Safe Online Behavior By acting responsibly and respectfully, the kids will enjoy their time online and get the best of the Internet while mostly avoiding things such as cyberbullying and inappropriate content. Communicate appropriately Keep private things private Follow your family's rules Think before you post, text, or share Respect others Don't lie, steal, or cheat Be an "upstander" Report misbehavior 	 Invited talks Videos Case studies Teacher presentations
	 5. Overview of Cybersecurity What is security? Why is it important? What is the national response? What are the basic components of security? What are the attack models and countermeasures? 	 Attack and defense demonstrations Case studies Hands-on experiments Invited talks Teacher presentations
Cybersecurity	 6. Principles of Cryptography What is cryptography? What are the key technologies? What problems can it solve? 	 Attack and defense demonstrations Case studies Hands-on experiments Teacher presentations
	 Online Social Networks: Threats and Solutions What are the threats? How to defend? What are the privacy issues? How to perform forensic investigation? 	Invited talksVideosCase studies