Cybersecurity

Malware

Malware is intrusive software that is designed to damage and destroy computers and computer systems. Malware is a contraction for "malicious software." A slow computer that freezes or is invaded by strange programs, browsers, and pop-ups has likely been infected with one or more malware types.



TYPES OF MALWARE



Computer Worm

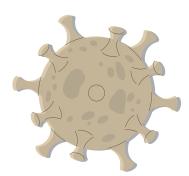
- A worm is a malicious computer program that automatically replicates itself and spreads to other computers.
- Worms can severely disrupt the operations of a device and cause data loss.





Virus

- Viruses are malicious codes or programs. When they are executed, they self-replicate and modify the codes of other computer programs.
- Viruses are designed to disrupt a system's ability to operate and can cause significant operational issues and data loss.





Trojan Horses

- Trojan horses are a type of malicious code designed to look like a legitir ster afform.
- Trojans can tak control of an area in lange, disrup proce es an steal of form rio.





Ransomware

- Ransomware steals and makes sensitive information inaccessible. It requires monetary compensation to release the information.
- Ransomware is commonly part of a phishing scam and the attacker usually unlocks the data when receiving payments.



PROTECTIVE MEASURES

Use virus protection. Install good anti-virus software and regularly scan devices.

Be on guard for phishing. Always double-check the source of information and don't open or download anything from suspicious sources.

Safeguard your computer from physical attacks. Be cautious of leaving devices unattended.

Back up data. Always have a copy of important files, and keep programs and software updated.

Use strong passwords. Use a combination of letters, numbers, and characters for passwords with at least 8-10 characters.

REFLECTION

In what ways can you strengthen your protection strategies when using electronic devices?

References:

- Berkeley Extension (n.d.). Cybersecurity in education: What teachers, parents, and students should know. https://bootcamp.berkeley.edu/blog/cybersecurity-in-education-what-teachers-parents-andstudents-should-know/
- Cisco. (n.d.). What is malware?. https://www.cisco.com/c/en/us/products/security/advanced-malware-protection/what-is-malware.html