

Introduction to Cyber Security

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1. Famous Hacks: Learning from the Past.

- Choose a major cyberattack (e.g., WannaCry, Target data breach, Colonial Pipeline).
- Analyze how it happened, the damage, and how it could have been prevented.

2. New Tech, New Threats?

- Pick an emerging technology (e.g., Internet of Things, cloud computing, self-driving cars).
- What unique cybersecurity risks does it introduce, and how can we protect ourselves?

2024

3. Don't Click That! The Tricks of Social Engineering

- Research common social engineering tactics (phishing, impersonation, baiting).
- Create examples and explain how people can protect themselves.

4. Cryptography: Beyond Secret Messages

- Explain the basics of encryption. How is it used beyond just hiding messages?
- Look into real-world applications in things like online shopping or digital signatures.

5. Building a Cybersecurity Toolkit

Research and present a collection of essential tools everyone should know about to protect their online presence. This could include things like:

- Password managers
- Antivirus/anti-malware software
- Two-factor authentication methods
- Tools for checking if they've been in a data breach (like haveibeenpwned.com)

6. Cybersecurity Laws: Who Makes the Rules?

- Compare a cybersecurity law or regulation from your country with one from another.
- Discuss their goals, strengths, and potential weaknesses.

