Name: _____   Date: _____

Outsmart the Breach: Your 8th Grade Cybersecurity Challenge

Evaluate zero-trust architecture, dissect social engineering tactics, and defend against advanced persistent threats in this high-stakes digital security simulation.

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1. You receive a 'spoofed' email that looks exactly like your school's portal, but the URL contains a subtle typo. This is an example of which specific psychological manipulation technique?

    A.   Spear Phishing

    B.   SQL Injection

    C.   Denial of Service (DoS)

    D.   Brute Force

2. The 'Zero Trust' security model operates on the principle that no user or device, whether inside or outside the network perimeter, should be granted access until verified.

    A.   True

    B.   False

3. In the context of protecting web traffic, what does the 'S' in HTTPS stand for, indicating that your data is being sent over an encrypted connection?

    A.   System

    B.   Secure

    C.   Standard

    D.   Script

4. Which of the following describes a 'Man-in-the-Middle' (MitM) attack specifically occurring on a public Wi-Fi network?

    A.   An attacker installs a keylogger on a public kiosk.

    B.   A hacker intercepts data packets between your device and the router.

    C.   A website uses cookies to track your browsing history.

    D.   A software update introduces a bug into your operating system.

5. A type of malicious software that encrypts a victim's files, with the attacker demanding payment to provide the decryption key, is known as _____.

    A.   Spyware

    B.   Adware

    C.   Ransomware

    D.   Bloatware

6. Using a Virtual Private Network (VPN) on public Wi-Fi encrypts your data, making it unreadable to anyone trying to sniff the network.

    A.   True

    B. False

7. Which component of the CIA Triad is compromised if a hacker modifies the grades in a school's database without authorization?

    A. Confidentiality

    B. Integrity

    C. Availability

    D. Authentication

8. If you notice your computer is running unusually slow and your webcam light turns on randomly, you might be a victim of a _____, which allows a hacker to control your PC remotely.

    A. Firewall

    B. Encryption Key

    C. Rootkit

    D. RAT (Remote Access Trojan)

9. Multi-Factor Authentication (MFA) is only necessary for adults with bank accounts, not for teenagers using social media or gaming platforms.

    A. True

    B. False

10. What is the most secure way to manage unique, highly complex passwords for 20 different online accounts?

    A. Write them in a physical notebook kept in a desk drawer.

    B. Use the same password but change one number at the end for each site.

    C. Utilize an encrypted digital password manager.

    D. Save them in a plain text file on your desktop labeled 'Passwords'.