

Name _____

Unlocking the Mystery of Encryption: Keeping Your Secrets Safe in Cybersecurity

Open-Ended Response Answer Key

1. To ensure that my email is encrypted and secure, I would use an email service that offers encryption features, such as end-to-end encryption. I would also ensure that my friend has the necessary decryption key to access the email. Additionally, I would use strong and unique passwords for my email account to prevent unauthorized access.
2. Not using encryption when sending sensitive information over the internet can expose the data to interception by cybercriminals or unauthorized parties. This could result in the loss of privacy, theft of personal information, financial loss, or identity theft. Encryption acts as a safeguard to prevent these risks and consequences.
3. One real-life example of encryption playing a crucial role is in online shopping. When you enter your credit card information on a secure website, encryption ensures that your financial data is protected during the transaction. Without encryption, this information could be intercepted and misused by malicious actors.
4. A decryption key is like the key to a locked treasure chest. Imagine a treasure chest with a special lock that can only be opened with a unique key. The decryption key serves the same purpose—it unlocks and reveals the original message from the encrypted code, making it readable and understandable.

