

Name _____

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

Short Answer Key

1. Encryption is a method of transforming information into a code that can only be understood with a special key. It's important in cybersecurity to keep data and messages private, secure, and protected from unauthorized access during transmission.
2. Encryption ensures the privacy of messages and data during transmission by scrambling them into an unreadable code that can only be deciphered with the correct decryption key. This prevents unauthorized access and eavesdropping.
3. The decryption key plays a crucial role in the process of encryption and decryption as it is used to unlock and reveal the original message from the encrypted code. It's like the key to a locked box containing the message.
4. Symmetric encryption uses a single key for both encryption and decryption, while asymmetric encryption uses two different keys—one for encryption (public key) and one for decryption (private key).
5. An example of a situation where encryption is important for securing data is online banking transactions. Encryption ensures that financial data, such as credit card numbers, is kept safe from unauthorized access when conducting online payments or banking transactions.

