

### ACTIVITY 3.

1. **Fill-in-the-Gaps Activity:** Complete the following sentences using the words provided below.

**Word Bank:**

- Confidentiality
- Algorithms
- Secure
- Ciphertext
- Plaintext
- Encryption key
- AES
- Symmetric
- Decryption
- Communication

**Sentences:**

1. \_\_\_\_\_ encryption uses the same key for both encrypting and decrypting information.
2. Data in its original, readable form is called \_\_\_\_\_.
3. When data is encrypted, it is converted into an unreadable format called \_\_\_\_\_.
4. The \_\_\_\_\_ is the secret code used to encrypt and decrypt information.
5. \_\_\_\_\_ is the principle of keeping information private and accessible only to authorized users.
6. Symmetric encryption relies on specific \_\_\_\_\_ to encode and decode data.
7. \_\_\_\_\_, a widely used symmetric encryption method, is known for its speed and strong security.
8. One challenge of symmetric encryption is ensuring the \_\_\_\_\_ transfer of the key between parties.
9. The process of turning encrypted data back into its original format is known as \_\_\_\_\_.
10. Symmetric encryption is widely used in securing online \_\_\_\_\_, such as messaging and banking.