

# KNOWLEDGE ORGANISER :: BUILD AN ENIGMA MACHINE

## KEY TERMS

**PERSONAL DATA** is data about yourself that someone can use to identify who you are or contact you. Your name and mobile number are examples of personal data.

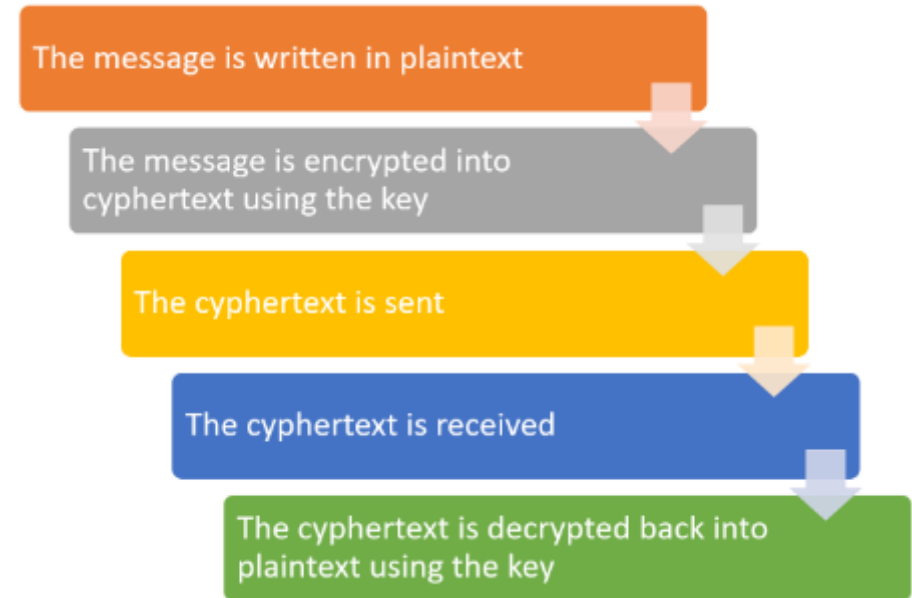
**PRIVATE DATA** is data about you that you don't want everyone to know about. Your hobbies or clubs that you are members of are examples of private data.

**SENSITIVE DATA** is data about you that only certain people need to be able to see or know about. Your medical history or school grades are examples of sensitive data.

**ENCRYPTION** is name given to the process of converting data into a secret code that can only be understood if you know the key.

**DECRYPTION** is the name given to the process of converting encrypted data (called a **Ciphertext**) back into unencrypted text (called **Plaintext**).

A **CIPHER** is an algorithm to encrypt plaintext so it can be kept secret. Data can be encrypted and decrypted using cyphers.



## PLAINTEXT AND CIPHERTEXT

<b>Plaintext</b>	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
<b>Ciphertext</b>	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C