



Morse code



Cipher



Algorithm



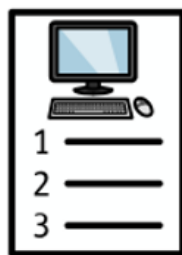
Semaphore



Transmit



Encrypt



We are
cryptographers



Encode



Problem
Solving

ABC

Text

$$3 \times 2 + 5 =$$

Calculations



Deciphering



Communication





Cryptography



Message

Computing - We are cryptographers: Y5 Topic Vocabulary Mat

Subject Specific Vocabulary		Relevant Pictures	Exciting Books/Websites
Morse code	An alphabet or code in which letters are represented by combinations of long and short light or sound signals.		Encryption for Kids! (purdue.edu) Cryptography Facts for Kids KidzSearch.com cryptography for kids - Bing video
Cipher	A secret or disguised way of writing a code.		Other Information <ul style="list-style-type: none"> Cryptography is the study of the hidden or secret transmission of messages and of how such encrypted messages can be decrypted by others. In traditional cryptography, encryption relies on an agreed system and a secret key known only to the transmitter and the recipient of the message.
Algorithm	A process or set of rules to be followed in calculations or other problem-solving operations, especially by a computer.		
Cryptanalysis	The art or process of deciphering coded messages without being told the key.		
Cryptography	The art of writing or solving codes.		
Encode	To convert a message into coded form.		
Message	A written or recorded communication sent to or left for a recipient who cannot be contacted directly.	What I've Learnt Already <p>Y3:</p> <ul style="list-style-type: none"> A Movie Maker project file is a sequence of instructions to assemble media into a final set of output audio and images shown as video. <p>Y2:</p> <ul style="list-style-type: none"> An algorithm is a sequence of instructions to complete a task. Sets of directions or movements are an example of an algorithm. Programs are sequences of code. These are precise instructions (or a set of rules) that can be understood and followed by a computer. 	Key Knowledge <ul style="list-style-type: none"> To transmit messages using semaphore.
Semaphore	A system of sending messages by holding the arms or two flags or poles in certain positions according to an alphabetic code.		<ul style="list-style-type: none"> To use and understand Morse code.
Decrypt	To decode a message to find its meaning.		<ul style="list-style-type: none"> To use the Caesar cipher to create and crack codes. To develop knowledge and use of ciphers to include substitution ciphers to decode a text.
Encrypt	To convert (information or data) into a code so it cannot be read.		<ul style="list-style-type: none"> Discover what makes a password effective and try to create passwords that are difficult even for computers to guess.