Cryptography: Cracking the Code



Simple Caeser Ciphers

Key = 1

Α	В	С	D	Ε	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	V	W	X	Υ	Z
В	С	D	Е	F	G	Н	I	J	K	L	М	Ν	0	Р	Q	R	S	T	C	V	W	X	Y	Z	Α

Key = 2

Α																,									
C	D	Ε	F	O	Н	I	J	Κ	L	7	Z	0	Р	Q	R	S	Т	U	7	W	X	Υ	Ζ	Α	В

Key = __

Α	В	O	D	Е	F	G	Η	J	K	 Δ	Z	0	Ρ	Q	R	S	T	כ	>	W	X	Y	Z

fold here before sharing your code

Activity 1: Monoalphabetic Key

Using a simple Caeser Cipher, create a code for either of the below sentences:

Mangoes are delicious. Eat bananas upside down.

CODE:		 	

Fold your sheet in half and ask your friend to test your encrypted code to see if it works ©

Tip: Remove punctuations and spaces between the words to make it tricky!



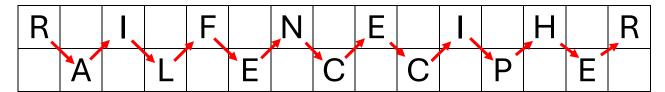
Activity 2: Famous Quotes

key and ask th	em to decrypt it! E	Bonus points if	they can figure	out what movie	the quote is fro
					

Activity 3: Rail Fence Cipher (a.k.a. Zig-Zag Cipher)



Example: Encrypting "Rail Fence Cipher" makes RIFNEIHRALECCPE



How to encrypt a secret word using this cipher:

- 1. Count the number of letters in the word or phrase. This will be the number of columns in your cipher grid.
- 2. Decide on a key. This will be the number of "rails", or rows, in your cipher grid.
- 3. Draw your grid and write each letter in a zig-zag pattern, going all the way to the bottom of the grid before going back to the top.

Encrypt "French Fries" with a key of 2.

F					

Encry	Encrypted word:											
Let's	encrypt the word "RHINOCEROS" with a key of 3.											
1.	Number of rows (key): 3											
2.	Number of columns (number of letters): Divide the grid below into this many columns.											
R												
Encry	/pted word:											

