

CIS3362 9/10/2021

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① Quizzes Still Being Graded - Returned Monday

② Playfair Cipher

- Old stuff monoalphabetic

③ - Why not "group" letters at a time to encrypt? (Polyalphabetic)

④ Process 2 letters at a time.

⑤ Easy to do by hand!

Secret Key Word: MILLE N I A L

→ MILENA

M	I	L	E	N
A	B	C	D	F
G	H	K	O	P
Q	R	S*	T	U
V	W	X	Y*	Z

Fill in keyword.

Take all unused letters + fill in, in alphabetic order.

MESSAGE: I W E N T T O T H E S T O R E  
B I N M S Y T R O L T Y T T J

Box: Use opposite corners, with letter on same row

Same ~~Row~~ <sup>Column</sup>: Replace each letter with the one below it, using wrap around

Same Row: Replace each letter w/ the letter on the right, wrap around

# Identifying factors

(2)

① No double letters in digraph spots

② even length

Harder than past ciphers

Clearly frequency info by letter is ~~destroyed~~!  
frequency of digraphs is preserved but you  
need way more of this to set good  
patterns.

Playfair - pretty hard w/ ciphertext only  
kmz - small amount of matching plain/cipher  
text!

AS | ~~A~~AM  
EW    DW

	A	D	E
	W	M	S
D	A	E	
M	W	S	